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A brief overview of the large range of products appearing in the Semiconductors section.

DIODES

SURFACE MOUNT & THROUGH HOLE



pages 432-463

SIGNAL

- General purpose
- Fast switching

SCHOTTKY

- Signal
- General purpose
- Fast switching
- Rectifier 1 Amp to 60 Amp

ZENER

- 350mW to 3.25W

TVS

- 300W to 1500W
- Unidirectional (DC) & Bidirectional (AC)

RECTIFIER

- 0.8 Amp to 20 Amp
- General purpose, fast switching, fast and ultra-fast recovery

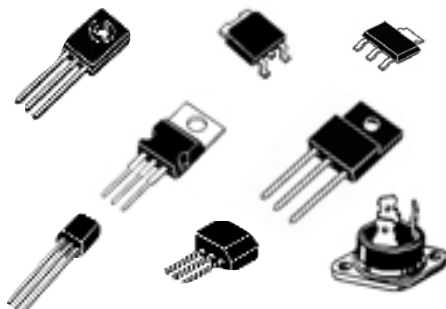
BRIDGE RECTIFIER

- 0.5 Amp to 35 Amp
- In-line, DIL, round and square packages



THYRISTORS

SURFACE MOUNT & THROUGH HOLE



pages 464-468

SCR's

- Standard
- Sensitive gate
- High current

DIACS

- Breakover voltage 28 to 35V

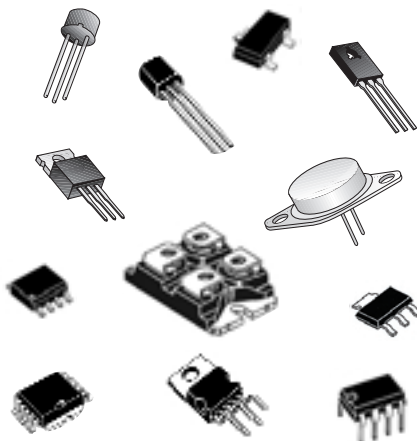
TRIACS

- Standard
- Logic level
- Logic level, snubberless



TRANSISTORS

SURFACE MOUNT & THROUGH HOLE



pages 469-479

SMALL SIGNAL

- NPN and PNP

GENERAL

- NPN and PNP
- Low & high power

SWITCHING & DARLINGTON

- NPN and PNP
- Low & high power

POWER MOSFETS

- N channel
- Standard and logic level

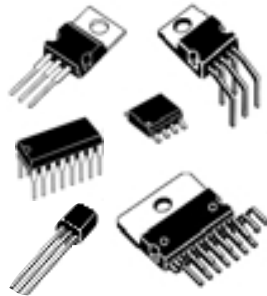
VIPower®

- 20W to 100W power capability



LINEAR

SURFACE MOUNT & THROUGH HOLE



pages 480-483

VOLTAGE REGULATORS

- Fixed
- Adjustable
- Reference
- Supervisor

TIMERS

- Single & dual

OPERATIONAL AMPLIFIERS

- Single, dual & quad

COMPARATORS

- Single, dual & quad

MISCELLANEOUS

- Drivers & power factor correctors
- Supplementry devices
- PWM controllers



DIGITAL

SURFACE MOUNT & THROUGH HOLE



pages 484-489

CMOS

- 4000B series

HIGH SPEED CMOS

- 74HC & 74HCT series

ADVANCED HIGH SPEED CMOS

- 74AC & 74ACT series



MICROCONTROLLERS

SURFACE MOUNT & THROUGH HOLE



pages 490-493

8 BIT

- ST6 family
- ST7 family
- OTP & UV
- ADC, DAC, CAN & USB variants



MEMORY

SURFACE MOUNT & THROUGH HOLE



pages 494-496

EPROM

- UV & OTP
- 64Kb to 4Mb sizes, speeds up to 70ns

EEPROM (E²PROM)

- Serial
- Microwire
- I²C bus
- SPI
- 256b to 256Kb sizes

FLASH

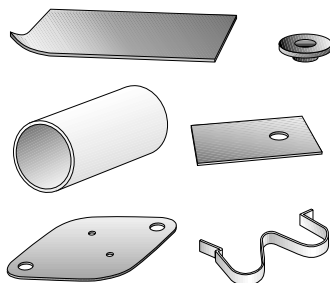
- 3V & 5V
- 1Mb to 8Mb sizes, speeds up to 70ns

NVRAM

- Timekeeper[®], 8b to 4Mb sizes, speeds up to 70ns
- Zeropower[®], 16kb to 4Mb sizes, speeds up to 70ns
- Ancillaries, controllers & battery/crystal modules



MOUNTING HARDWARE



pages 497-502

THERMAL INTERFACE MATERIALS

- Sheets
- Washers, TO220, TO3P/TO247 and TO3

CLIPS

- TO220 & TO3P/TO247

BUSHES

- Device & heatsink mounting

INSULATOR KITS

- TO220, TO3, TO3P/TO247 & TO126

BEROQUIST warth



WASHERS

- Silicone rubber & mica

PADS

- TO92, TO5/TO39 & TO18



SOD123
SOD323



SOD80



Quadro MELF



Micro MELF

GENERAL PURPOSE

NEW

1N4148W

Manufacturer: GS

Package: SOD123

V_R (V)	V_{RM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 10mA	I_R (μ A) at 75V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	0.5	1	5	4	1N4148W

NEW

1N4148WS

Manufacturer: GS

Package: SOD323

V_R (V)	V_{RM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 10mA	I_R (μ A) at 75V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	0.35	1	5	4	1N4148WS

LL4148

Manufacturer: GS

Package: SOD80

V_R (V)	V_{RM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 10mA	I_R (μ A) at 75V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	0.5	1	5	4	LL4148

LS4148

Manufacturer: Vishay Telefunken

Package: Quadro MELF

V_R (V)	V_{RRM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 50mA	I_R (μ A) at 75V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	2	1	5	4	LS4148

MCL4148

Manufacturer: Vishay Telefunken

Package: Micro MELF

V_R (V)	V_{RRM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 50mA	I_R (μ A) at 75V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	2	1	5	4	MCL4148

NEW

LL4150

Manufacturer: GS

Package: SOD80

V_{RM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 200mA	I_R (nA) at 50V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
50	200	0.5	1	100	4	LL4150

NEW

LL4151

Manufacturer: GS

Package: SOD80

V_R	V_{RM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 50mA	I_R (nA) at 50V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
50	75	150	0.5	1	50	4	LL4151

LL4448

Manufacturer: GS

Package: SOD80

V_R	V_{RM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 100mA	I_R (μ A) at 75V	t_{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	0.5	1	5	4	LL4448



SOD123
SOD323

SOD80



SOT23

GENERAL PURPOSE continued**NEW****BAV19W-21W**

Manufacturer: GS

Package: SOD123

V_R (V)	V_{RRM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 100mA	I_R (nA) at V_R (V)	t_{rr} (ns) at 30mA	Device & Anglia Order Code
100	120	200	1	1	100	50	BAV19W
150	200				150		BAV20W
200	250				200		BAV21W

NEW**BAV19WS-21WS**

Manufacturer: GS

Package: SOD323

V_R (V)	V_{RRM} (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 100mA	I_R (nA) at V_R (V)	t_{rr} (ns) at 30mA	Device & Anglia Order Code
100	120	200	1	1	100	50	BAV19WS
150	200				150		BAV20WS
200	250				200		BAV21WS

NEW**BAV100-103**

Manufacturer: GS

Package: SOD80

V_R (V)	I_{FAV} (mA)	I_{FSM} (A)	V_F (V) at 100mA	I_R (nA) at V_R (V)	t_{rr} (ns) at 30mA	Device & Anglia Order Code
60	200	1	1	50	50	BAV100
120				100		BAV101
200				150		BAV102
250				200		BAV103

FAST SWITCHING**NEW****BAS16-21**

Manufacturer: GS

Package: SOT23

V_R (V)	V_{RRM} (V)	$I_{F(AV)}$ (mA)	I_{FSM} (A)	V_F (V) at I_F (mA)	I_R (μ A) at V_R	t_{rr} (ns) at I_F (mA)	Device & Anglia Order Code
75	100*	250†	2	1	50	6	BAS16
100	120	200	2.5	1	100	50	BAS19
150	200						BAS20
200	250						BAS21

* V_{RM}

† Continuous

NEW**BAV70/99/BAW56, Dual**

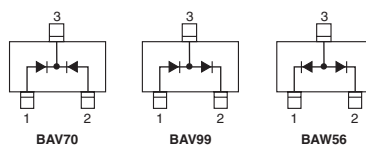
Manufacturer: GS

Package: SOT23

V_R (V)	V_{RM} (V)	I_F (mA)	I_{FSM} (A)	V_F (V) at I_F (mA)	I_R (μ A) at V_R	t_{rr} (ns) at 10mA	Device & Anglia Order Code
70	70	250	2	1	50	6	BAV70
							BAV99
							BAW56

Ratings are per diode.

BAV/BAW Circuit Diagrams



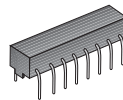
Top View

Through Hole Signal Diodes shown overleaf > > >





DO35



DIL

GENERAL PURPOSE

1N4148				Manufacturer: GS			Package: DO35	
V _R (V)	V _{RM} (V)	I _{FAV} (mA)	I _{FSM} (A)	V _F (V) at 10mA	I _R (μA) at 75V	t _{rr} (ns) at 10mA	Device &  Order Code	Taped Tape & Reel
75	100	150	0.5	1	5	4	1N4148	1N4148TR

NEW

NEW

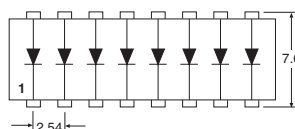
1N914				Manufacturer: GS			Package: DO35
V _R (V)	V _{RM} (V)	I _{FAV} (mA)	I _{FSM} (A)	V _F (V) at 10mA	I _R (nA) at 20V	t _{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	75	0.5	1	25	4	1N914

1N4448		Manufacturer: Vishay Telefunken					Package: DO35
V _R (V)	V _{RRM} (V)	I _{FAV} (mA)	I _{FSM} (A)	V _F (V) at 5mA	I _R (nA) at 20V	t _{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	2	0.72	25	4	1N4448

8 x ISOLATED 1N4148				Manufacturer: Iskra			Package: 16 Pin DIL
V _R (V)	V _{RRM} (V)	I _{FAV} (mA)	I _{FSM} (A)	V _F (V) at 10mA	I _R (µA) at 75V	t _{rr} (ns) at 10mA	Device & Anglia Order Code
75	100	150	2	1	5	4	BDP4148

Dimensions (mm)

BDP4148 Circuit Diagram



NEW

NEW

BAV19-21				Manufacturer: GS			Package: DO35	
V _R (V)	V _{RRM} (V)	I _{FAV} (mA)	I _{FSM} (A)	V _F (V) at 100mA	I _R (nA) at V _R	t _{rr} (ns) at 30mA	Device & Anglia Order Code	
100	120	200	1	1	100	50	BAV19	
150	200						BAV20	
200	250						BAV21	



For the very latest information on the full range of General Semiconductor products available from Anglia, please contact our Sales Desk.





SOD80



SOD123



SOT23

GENERAL PURPOSE

NEW

BAS85

Manufacturer: GS

Package: SOD80

V_R	I_F (mA)	I_{FSM} (A)	V_F (V) at 10mA	I_R (μ A) at 25V	t_{rr} (ns) at 10mA	C (pF) at 1V	Device & Anglia Order Code
30	200	0.6	0.4	2	5	10	BAS85

NEW

BAT42W-46W, Low Turn-On

Manufacturer: GS

Package: SOD123

V _{RRM} (V)	I _F (mA)	I _{FSM} (A)	V _F (V) at I _F (mA)		I _R (μA) at V _R (V)		t _{rr} (ns) at 10mA	C (pF) at 1V	Device & Anglia Order Code
30	200	4	0.4	10	0.5	25	5	7 typ.	BAT42W
			0.33	2					BAT43W
100	150	0.75	0.45	10	2	50	-	6 typ.	BAT46W

NEW

LL41-46, Low Turn-On

Manufacturer: GS

Package: SOD80

V _{RRM} (V)	I _F (mA)	I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _R (V)		t _{rr} (ns) at 10mA	C (pF) at 1V	Device & Anglia Order Code
30	200	4	0.4	10	0.5	25	5	7 typ.	LL42
30	200	4	0.33	2	0.5	25	5	7 typ.	LL43
100	100	0.75	0.45	1	0.1	50	5 typ.	2 typ.	LL41
100	150	0.75	0.45	10	2	50	-	6 typ.	LL46

FAST SWITCHING

BAR42/43/BAT54/BAS40/70, Low Turn-On

Manufacturer: GS/ST

Package: SOT23

V _{RRM} (V)	I _F (mA)	I _{FSM} (A)	V _F (V) at I _F (mA)		I _R (μA) at V _R (V)		t _{rr} (ns) at 10mA	C (pF) at V		Fig.	Device & Anglia Order Code
30	100	0.75	0.4	10	0.5	25	5	7 typ.	1	1	BAR42
	100	0.75	0.33	2	0.5	25	5	7 typ.	1	1	BAR43
										2	BAR43A
										3	BAR43C
										4	BAR43S
	200	0.6	0.4	10	2	25	5	10	1	1	BAT54
										2	BAT54A
										3	BAT54C
4										BAT54S	
40	200	0.6	0.38	1	0.1	30	5	5	0	1	BAS40
										4	BAS40-04
										3	BAS40-05
										2	BAS40-06
70	200	0.6	0.41	1	0.1	50	5	2	0	1	BAS70
										4	BAS70-04
										3	BAS70-05
										2	BAS70-06

Ratings are per diode.

Circuit Diagrams

Top View

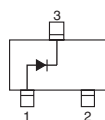


Fig. 1

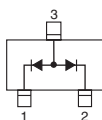


Fig. 2

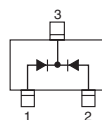


Fig. 3

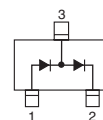


Fig. 4

Schottky Rectifiers shown overleaf > > >



GENERAL
SEMICONDUCTOR®



SHINDENGEN



SMA
1F/2F
M1F



SMB



1Z

RECTIFIER

NEW

1 Amp

Manufacturer: GS/Invac

Package: SMA/DO214AC

V_{RRM} (V)	V_{DC} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 1A	I_R (mA) at V_{DC}	Manufacturer	Device & Anglia Order Code
20	20	1	40	0.5	0.2	GS	SS12
			50	0.45	0.5	Invac	
30	30		40	0.5	0.2	GS	SS13
			50	0.55	0.5	Invac	
40	40		40	0.5	0.2	GS	SS14
			50	0.6	0.5	Invac	
50	50		40	0.75	0.2	GS	SS15
			50	0.72	0.5	Invac	
60	60		40	0.75	0.2	GS	SS16
			50	0.72	0.5	Invac	

STATE MANUFACTURER WHEN ORDERING

NEW

1 Amp

Manufacturer: ST

Package: SMB/DO214AA

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 1A	I_R (μA) at V_{RRM}	Device & Anglia Order Code
40	1	60	0.55	12	STPS140U

NEW

1.1 Amp

Manufacturer: Shindengen

Package: 1F

V_{RM} (V)	I_{AV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at 1.1A	I_R (mA) at V_{RM}	Device & Anglia Order Code
40	1.1	30	0.55	1.0	D1FS4
60		40	0.58		D1FS6

NEW

1.2 Amp, Dual

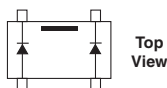
Manufacturer: Shindengen

Package: 1Z

V_{RM} (V)	I_{AV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at 1A†	I_R (mA) at V_{RM} †	Device & Anglia Order Code
40	1.2	49	0.55	1.0	S1ZAS4

† Rating per diode

S1Z Circuit Diagram



NEW

1.2 - 1.33 Amp

Manufacturer: Shindengen

Package: M1F

V_{RM} (V)	I_{AV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at 1.1A	I_R (mA) at V_{RM}	Device & Anglia Order Code
30	1.29	30	0.4	2.5	M1FP3
40	1.33		0.55	0.8	M1FS4
60	1.2		0.58	1.0	M1FS6

NEW

1.5 Amp

Manufacturer: Shindengen

Package: 1F

V_{RM} (V)	I_{AV} (A) at T_{amb} (°C)*	I_{FSM} (A)	V_F (V) at 1.5A	I_R (mA) at V_{RM}	Device & Anglia Order Code
40	1.5	60	0.48	2.0	D1FS4A

* On aluminium substrate

NEW

1.5/1.6 Amp

Manufacturer: Shindengen

Package: 2F

V_{RM} (V)	I_{AV} (A) at T_{amb} (°C)*	I_{FSM} (A)	V_F (V) at I_{AV} (A)	I_R (mA) at V_{RM}	Device & Anglia Order Code
40	1.6	60	0.55	2.5	D2FS4
60	1.5		0.58	2.0	D2FS6

* On aluminium substrate





SMB



SMC

DPAK
E-Pack**RECTIFIER** continued**NEW****2 Amp**

Manufacturer: GS

Package: SMB/DO214AA

V _{RRM} (V)	V _{DC} (V)	I _{AV} (A)	I _{FSM} (A)	V _F (V) at 2A	I _R (mA) at V _{DC}	Device & Anglia Order Code
20	20	2	50	0.5	0.4	SS22
30	30					SS23
40	40					SS24
50	50			0.7		SS25
60	60					SS26

NEW**3 Amp**

Manufacturer: GS

Package: SMC/DO214AB

V _{RRM} (V)	V _{DC} (V)	I _{AV} (A)	I _{FSM} (A)	V _F (V) at 2A	I _R (mA) at V _{DC}	Device & Anglia Order Code
20	20	3	100	0.5	0.5	SS32
30	30					SS33
40	40					SS34
50	50			0.75		SS35
60	60					SS36

3 Amp

Manufacturer: ST

Package: SMB/DO214AA

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 3A	I_R (μ A) at V_{RRM}	Device & Anglia Order Code
40	3	75	0.63	20	STPS340U

NEW**3 Amp**

Manufacturer: Shindengen

Package: E-Pack

V_{RM} (V)	I_{AV} (A) at T_C ($^{\circ}$ C)	I_{FSM} (A)	V_F (V) at 3A	I_R (mA) at V_{RM}	Device & Anglia Order Code
40	3	121	0.55	2.5	DE3S4M
60		117	0.58		DE3S6M

NEW**5 Amp**

Manufacturer: Shindengen

Package: E-Pack

V_{RM} (V)	I_{AV} (A) at T_C ($^{\circ}$ C)	I_{FSM} (A)	V_F (V) at 5A	I_R (mA) at V_{RM}	Device & Anglia Order Code
40	5	101	0.55	3.5	DE5S4M
60		96	0.58	4.5	DE5S6M

5 Amp, Low Volt Drop

Manufacturer: ST

Package: DPAK

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 5A	I_R (μ A) at V_{RRM}	Device & Anglia Order Code
25	5	75	0.47	350	STPS5L25B

Surface Mount Schottky Rectifiers continued overleaf > > >





SHINDENGEN



E-Pack



STO220

RECTIFIER

continued

NEW

5 Amp, Dual

Manufacturer: Shindengen

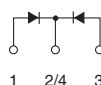
Package: E-Pack

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 2.5A [†]	I_R (mA) at V_{RM} [†]	Device & Anglia Order Code
40	5	101	80	0.55	3.2	DE5SC4M
60		92		0.58	2.5	DE5SC6M

* Total for both diodes

[†] Rating per diode

DE5S Circuit Diagram



NEW

10 Amp, Dual

Manufacturer: Shindengen

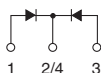
Package: STO220

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 5A [†]	I_R (mA) at V_{RM} [†]	Device & Anglia Order Code
40	10	125	100	0.55	3.5	DF10SC4M

* Total for both diodes

[†] Rating per diode

DF10S Circuit Diagram



NEW

20 Amp, Dual

Manufacturer: Shindengen

Package: STO220

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 10A [†]	I_R (mA) at V_{RM} [†]	Device & Anglia Order Code
40	20	122	230	0.55	7.5	DF20SC4M

* Total for both diodes

[†] Rating per diode

DF20S Circuit Diagram



NEW

25 Amp, Dual

Manufacturer: Shindengen

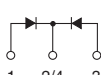
Package: STO220

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 12.5A [†]	I_R (mA) at V_{RM} [†]	Device & Anglia Order Code
60	25	115	300	0.58	10	DF25SC4M

* Total for both diodes

[†] Rating per diode

DF25S Circuit Diagram



NEW

30 Amp, Dual

Manufacturer: Shindengen

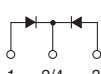
Package: STO220

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 15A [†]	I_R (mA) at V_{RM} [†]	Device & Anglia Order Code
40	30	112	360	0.55	10	DF30SC4M

* Total for both diodes

[†] Rating per diode

DF30S Circuit Diagram



DO35
AX057DO41
AX078

DO201AD

SIGNAL

1N6263/1N5711, Ultra-Fast						Manufacturer: ST	Package: DO35
V_{RRM} (V)	I_F (mA)	I_{FSM} (mA)	V_F (V) at 15mA	I_R (mA) at 50V	t_{rr} (ps) at 5mA	Device & Anglia Order Code	
60	15	50	1	0.2	100	1N6263	
70		—				1N5711	

GENERAL PURPOSE

BAT41-49/85/86, Low Turn-On										Manufacturer: GS/ST	Package: DO35
V_{RRM} (V)	I_F (mA)	I_{FSM} (A)	V_F (V) at I_F (mA)		I_R (μA) at V_R (V)		t_{rr} (ns) at I_F (mA)		C (pF) at 1V	Device & Anglia Order Code	
30*	200	0.6	0.4	10	2	25	5	10	10	BAT85	
30	200	4	0.33	2	0.5	25	5	10	7 typ.	BAT43	
30	200	4	0.4	10	0.5	25	5	10	7 typ.	BAT42	
40	350	7.5	0.4	10	25	40	—	—	12 typ.	BAT48	
50*	200	—	0.45	10	0.5	25	5	10	8	BAT86	
80	500	10	0.32	10	200	80	—	—	35†	BAT49	
100	100	0.75	0.45	1	0.1	50	5 typ.	10	2 typ.	BAT41	
100	150	0.75	0.45	10	2	50	—	—	6 typ.	BAT46	

*Continuous reverse voltage (V_R)

† Measured at 5V

RECTIFIER**NEW**

1 Amp						Manufacturer: ST/Invac	Package: DO41
V_{RRM} (V)	I_{AV} (A) at T_L (°C)		I_{FSM} (A)	V_F (V) at 1A†	I_R (mA) at V_{RRM} †	Device & Anglia Order Code	
20	1	125*	25	0.45	1	1N5817	
30				0.55		1N5818	
40				0.6		1N5819	

*Invac value = 90°C

† Pulse test : 300μs pulse width, 2% duty cycle

NEW

NEW

1 Amp		Manufacturer: GS				Package: DO41
V _{RRM} (V)	V _{DC} (V)	I _{AV} (A)	I _{FSM} (A)	V _F (V) at 1A	I _R (mA) at V _{DC}	Device & Anglia Order Code
20	20	1	40	0.5	0.5	SB120
30	30					SB130
40	40					SB140
50	50			0.7		SB150
60	60					SB160

NEW

1 Amp						Manufacturer: Shindengen	Package: AX057
V_{RM} (V)	I_{AV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at 1A	I_R (mA) at V_{RM}	Device & Anglia Order Code	
40	1	59	30	0.55	0.8	D1NS4	
60		46		0.58	1.0	D1NS6	

NEW

2 Amp						Manufacturer: Shindengen	Package: AX078
V_{RM} (V)	I_{AV} (A) at T_L (°C)		I_{FSM} (A)	V_F (V) at I_{AV} (A)		I_R (mA) at V_{RM}	Device & Anglia Order Code
40	2	122	60	0.55	1.5	2.0	D2S4M
60		119		0.58	1.2		D2S6M

3 Amp						Manufacturer: ST/Invac	Package: DO201AD
V_{RRM} (V)	I_{AV} (A) at T_L (°C)		I_{FSM} (A)	V_F (V) at 3A†	I_R (mA) at V_{RRM} †	Device & Anglia Order Code	
20	3	110*	80	0.475	2	1N5820	
30		100*		0.5		1N5821	
40		100*		0.525		1N5822	

*Invac value = 95°C

† Pulse test : 300μs pulse width, 2% duty cycle

Through Hole Schottky Rectifiers continued overleaf > > >



RECTIFIER *continued*

NEW

3 Amp		Manufacturer: GS				Package: DO201AD	
V_{RRM} (V)	V_{DC} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 3A	I_R (mA) at V_{DC}	Device & Anglia Order Code	
20	20	3	80	0.5	0.5	SB320	
30	30					SB330	
40	40					SB340	
50	50					SB350	
60	60			0.74		SB360	

NEW

NEW

3 Amp		Manufacturer: Shindengen				Package: AX14
V _{RM} (V)	I _{AV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at 3A	I _R (mA) at V _{RM}	Device & Anglia Order Code
40	3	63	80	0.55	3.5	D3S4M
60		113*		0.58	2.5	D3S6M

* at T_L (°C)

NEW

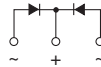
NEW

4 Amp, Dual			Manufacturer: Shindengen			Package: ITO220
V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 2A†	I_R (mA) at V_{RM} †	Device & Anglia Order Code
60	4	138	60	0.58	2.0	D4SC6M

* Total for both diodes

† Rating per diode

D4S6M Circuit Diagram



NEW

5 Amp		Manufacturer: GS				Package: DO201AD	
V_{RRM} (V)	V_{DC} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 5A	I_R (mA) at V_{DC}	Device & Anglia Order Code	
20	20	5	150	0.55	0.5	SB520	
30	30					SB530	
40	40					SB540	
50	50					SB550	
60	60			0.67		SB560	

NEW

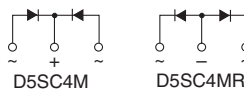
NEW

5 Amp, Dual		Manufacturer: Shindengen				Package: ITO220	
V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 2.5A†	I_R (mA) at V_{RM} †	Device & Anglia Order Code	
40	5	136	50	0.55	2.5	D5SC4M	
						D5SC4MR	

* Total for both diodes

† Rating per diode

D5SC Circuit Diagrams



NEW

7.5 Amp		Manufacturer: GS				Package: TO220AC	
V_{RRM} (V)	V_{DC} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (mA) at V_{DC}	Device & Anglia Order Code	
35	35	7.5	150	0.84	15	0.1	MBR735
45	45						MBR745
50	50			0.75	7.5	0.5	MBR750
60	60						MBR760



SHINDENGEN



TO220AC



ITO220



TO220



TO247
MTO3P

RECTIFIER

continued

NEW

8 Amp, High Voltage

Manufacturer: ST

Package: TO220AC

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at I_{AV}	I_R (μA) at V_{RRM}	Device & Anglia Order Code
100	8	250	0.71	4.5	STPS8H100D

10 Amp

Manufacturer: ST

Package: TO220AC

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 15A	I_R (μA) at V_{RRM}	Device & Anglia Order Code
45	10	180	0.84	100	STPS1045D

NEW

10 Amp, Dual

Manufacturer: Shindengen

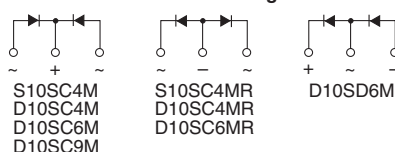
Package: TO220/ITO220

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 5A†	I_R (mA) at V_{RM} †	Package	Device & Anglia Order Code
40	10	125	100	0.55	3.5	TO220	<i>S10SC4M</i>
		123				<i>S10SC4MR</i>	
60		120		0.58	4.5	ITO220	<i>D10SC4M</i>
		90					111
<i>D10SC6M</i>							
<i>D10SC6MR</i>							
<i>D10SD6M</i>							
<i>D10SC9M</i>							

* Total for both diodes

† Rating per diode

S10S/D10S Circuit Diagrams



NEW

15 Amp, Dual

Manufacturer: Shindengen

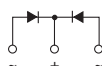
Package: TO220/ITO220/MTO3P

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 7.5A†	I_R (mA) at V_{RM} †	Package	Device & Anglia Order Code
40	15	129	150	0.55	5.0	TO220	S15SCA4M
		117				ITO220	D15SCA4M
		135	170			MTO3P	S15SC4M

* Total for both diodes

† Rating per diode

S15S/D15S Circuit Diagram



2 x 15/20 Amp, Dual

Manufacturer: ST

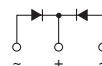
Package: TO247

V_{RRM} (V)	I_{AV} (A) at T_C (°C)*		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
40	15	135	220	0.55	15	360	STPS30L40CW
45	20	150		0.94	40	200	STPS4045CW

Ratings are per diode.

*Heatsink temperature

STPS30/40 Circuit Diagram



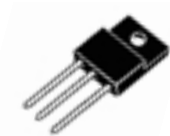
Through Hole Schottky Rectifiers

continued overleaf > > >





SHINDENGEN



ITO3P



MTO3P



ISOWATT220AB

TO220AC
TO220AC isolated**RECTIFIER**

continued

NEW**25 Amp, Dual**

Manufacturer: Shindengen

Package: ITO3P

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 12.5A†	I_R (mA) at V_{RM} †	Device & Anglia Order Code
60	25	117	300	0.58	10	D25SC6M
						D25SC6MR

* Total for both diodes

† Rating per diode

D25SC Circuit Diagram

**NEW****30 Amp, Dual**

Manufacturer: Shindengen

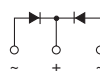
Package: ITO3P/MTO3P

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 15A†	I_R (mA) at V_{RM} †	Package	Device & Anglia Order Code
40	30	112	300	0.55	10	ITO3P	D30SC4M
		126				MTO3P	S30SC4M

* Total for both diodes

† Rating per diode

D30S/S30S Circuit Diagram

**NEW****60 Amp, Dual**

Manufacturer: Shindengen

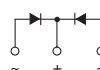
Package: MTO3P

V_{RM} (V)	I_{AV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 30A†	I_R (mA) at V_{RM} †	Device & Anglia Order Code
30	60	130	500	0.48	25	S60SC3ML
40		126		0.55		S60SC4M
60		118		0.67	20	S60SC6M

* Total for both diodes

† Rating per diode

S60S Circuit Diagram

**ULTRA-FAST RECOVERY****2 x 5 Amp, Dual**

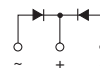
Manufacturer: ST

Package: ISOWATT220AB

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at 10A	I_R (μA) at V_{RRM}	t_{rr} (ns) at 0.5A	Package	Device & Anglia Order Code
200	5	50	1.25	50	30	ISOWATT220AB	STPR1020CF

Ratings are per diode.

STPR10 Circuit Diagram

**5-12 Amp, TURBOSWITCH™**

Manufacturer: ST

Package: TO220AC

V_{RRM} (V)	I_{AV} (A)	I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at 80% V_{RRM} (V)	t_{rr} (ns) at 1A	Package	Device & Anglia Order Code
600	8	90	1.75	8	100	480	TO220AC	STTA806D
							TO220AC isolated	STTA806DI
600	12	110	1.75	12	100	480	TO220AC	STTA1206D
							TO220AC isolated	STTA1206DI
1200	5	45	2.2	5	100	960	TO220AC	STTA512D





SOT23



SOD80



Quadro MELF

350mW

BZX84				Power Rating: 350mW				Tolerance: 5%				Manufacturer: GS				Package: SOT23			
Regulated Voltage (V) Nom.	Range	Marking Code	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Marking Code	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Marking Code	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Marking Code	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Marking Code	Device & Anglia Order Code
2.4	2.2 - 2.6	Z11	BZX84C2V4	8.2	7.7 - 8.7	Z7	BZX84C8V2	30	28 - 32	Y11	BZX84C30								
2.7	2.5 - 2.9	Z12	BZX84C2V7	9.1	8.5 - 9.6	Z8	BZX84C9V1	33	31 - 35	Y12	BZX84C33								
3.0	2.8 - 3.2	Z13	BZX84C3V0	10	9.4 - 10.6	Z9	BZX84C10	36	34 - 38	Y13	BZX84C36								
3.3	3.1 - 3.5	Z14	BZX84C3V3	11	10.4 - 11.6	Y1	BZX84C11	39	37 - 41	Y14	BZX84C39								
3.6	3.4 - 3.8	Z15	BZX84C3V6	12	11.4 - 12.7	Y2	BZX84C12	43	40 - 46	Y15	BZX84C43								
3.9	3.7 - 4.1	Z16	BZX84C3V9	13	12.4 - 14.1	Y3	BZX84C13	47	44 - 50	Y16	BZX84C47								
4.3	4.0 - 4.6	Z17	BZX84C4V3	15	13.8 - 15.6	Y4	BZX84C15	51	48 - 54	Y17	BZX84C51								
4.7	4.4 - 5.0	Z1	BZX84C4V7	16	15.3 - 17.1	Y5	BZX84C16	56	52 - 60	Y18	BZX84C56								
5.1	4.8 - 5.4	Z2	BZX84C5V1	18	16.8 - 19.1	Y6	BZX84C18	62	58 - 66	Y19	BZX84C62								
5.6	5.2 - 6.0	Z3	BZX84C5V6	20	18.8 - 21.2	Y7	BZX84C20	68	64 - 72	Y20	BZX84C68								
6.2	5.8 - 6.6	Z4	BZX84C6V2	22	20.8 - 23.3	Y8	BZX84C22	75	70 - 79	Y21	BZX84C75								
6.8	6.4 - 7.2	Z5	BZX84C6V8	24	22.8 - 25.6	Y9	BZX84C24												
7.5	7.0 - 7.9	Z6	BZX84C7V5	27	25.1 - 28.9	Y10	BZX84C27												

500mW**NEW**

BZV55/ZMM				Power Rating: 500mW				Tolerance: 5%				Manufacturer: GS				Package: SOD80			
Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code BZV55	Order Code ZMM	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code BZV55	Order Code ZMM	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code BZV55	Order Code ZMM	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code BZV55	Order Code ZMM	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code BZV55	Order Code ZMM
-	0.7 - 0.8*	-	ZMM1	7.5	7.0 - 7.9	BZV55C7V5	ZMM7.5	27	25.1 - 28.9	BZV55C27	ZMM27								
2.4	2.2 - 2.6	BZV55C2V4	-	8.2	7.7 - 8.7	BZV55C8V2	ZMM8.2	30	28 - 32	BZV55C30	ZMM30								
2.7	2.5 - 2.9	BZV55C2V7	ZMM2.7	9.1	8.5 - 9.6	BZV55C9V1	ZMM9.1	33	31 - 35	BZV55C33	ZMM33								
3.0	2.8 - 3.2	BZV55C3V0	ZMM3	10	9.4 - 10.6	BZV55C10	ZMM10	36	34 - 38	BZV55C36	ZMM36								
3.3	3.1 - 3.5	BZV55C3V3	ZMM3.3	11	10.4 - 11.6	BZV55C11	ZMM11	39	37 - 41	BZV55C39	ZMM39								
3.6	3.4 - 3.8	BZV55C3V6	ZMM3.6	12	11.4 - 12.7	BZV55C12	ZMM12	43	40 - 46	BZV55C43	ZMM43								
3.9	3.7 - 4.1	BZV55C3V9	ZMM3.9	13	12.4 - 14.1	BZV55C13	ZMM13	47	44 - 50	BZV55C47	ZMM47								
4.3	4.0 - 4.6	BZV55C4V3	ZMM4.3	15	13.8 - 15.6	BZV55C15	ZMM15	51	48 - 54	BZV55C51	ZMM51								
4.7	4.4 - 5.0	BZV55C4V7	ZMM4.7	16	15.3 - 17.1	BZV55C16	ZMM16	56	52 - 60	BZV55C56	ZMM56								
5.1	4.8 - 5.4	BZV55C5V1	ZMM5.1	18	16.8 - 19.1	BZV55C18	ZMM18	62	58 - 66	BZV55C62	ZMM62								
5.6	5.2 - 6.0	BZV55C5V6	ZMM5.6	20	18.8 - 21.2	BZV55C20	ZMM20	68	64 - 72	BZV55C68	ZMM68								
6.2	5.8 - 6.6	BZV55C6V2	ZMM6.2	22	20.8 - 23.3	BZV55C22	ZMM22	75	70 - 79	BZV55C75	ZMM75								
6.8	6.4 - 7.2	BZV55C6V8	ZMM6.8	24	22.8 - 25.6	BZV55C24	ZMM24												

Note - The BZV55 range is generally identical to the ZMM series but has a higher temperature range (200°C against 175°C)

*Operate in forward direction. Connect cathode to the negative pole.

BZT55				Power Rating: 500mW				Tolerance: 5%				Manufacturer: Vishay Telefunken				Package: Quadro MELF			
Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code		Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code		Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code		Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code		Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	
2.4	2.28 - 2.56	BZT55C2V4		8.2	7.7 - 8.7	BZT55C8V2		30	28 - 32	BZT55C30									
2.7	2.5 - 2.9	BZT55C2V7		9.1	8.5 - 9.6	BZT55C9V1		33	31 - 35	BZT55C33									
3.0	2.8 - 3.2	BZT55C3V0		10	9.4 - 10.6	BZT55C10		36	34 - 38	BZT55C36									
3.3	3.1 - 3.5	BZT55C3V3		11	10.4 - 11.6	BZT55C11		39	37 - 41	BZT55C39									
3.6	3.4 - 3.8	BZT55C3V6		12	11.4 - 12.7	BZT55C12		43	40 - 46	BZT55C43									
3.9	3.7 - 4.1	BZT55C3V9		13	12.4 - 14.1	BZT55C13		47	44 - 50	BZT55C47									
4.3	4.0 - 4.6	BZT55C4V3		15	13.8 - 15.6	BZT55C15		51	48 - 54	BZT55C51									
4.7	4.4 - 5.0	BZT55C4V7		16	15.3 - 17.1	BZT55C16		56	52 - 60	BZT55C56									
5.1	4.8 - 5.4	BZT55C5V1		18	16.8 - 19.1	BZT55C18		62	58 - 66	BZT55C62									
5.6	5.2 - 6.0	BZT55C5V6		20	18.8 - 21.2	BZT55C20		68	64 - 72	BZT55C68									
6.2	5.8 - 6.6	BZT55C6V2		22	20.8 - 23.3	BZT55C22		75	70 - 79	BZT55C75									
6.8	6.4 - 7.2	BZT55C6V8		24	22.8 - 25.6	BZT55C24													
7.5	7.0 - 7.9	BZT55C7V5		27	25.1 - 28.9	BZT55C27													

Through Hole Zener Diodes shown overleaf > > >





500mW

BZX55 Power Rating: 500mW			Tolerance: 5%			Manufacturer: GS			Package: DO35 Glass		
Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code
2.4	2.2 - 2.5	BZX55C2V4	8.2	7.7 - 8.7	BZX55C8V2	30	28 - 32	BZX55C30			
2.7	2.5 - 2.9	BZX55C2V7	9.1	8.5 - 9.6	BZX55C9V1	33	31 - 35	BZX55C33			
3.0	2.8 - 3.2	BZX55C3V0	10	9.4 - 10.6	BZX55C10	36	34 - 38	BZX55C36			
3.3	3.1 - 3.5	BZX55C3V3	11	10.4 - 11.6	BZX55C11	39	37 - 41	BZX55C39			
3.6	3.4 - 3.9	BZX55C3V6	12	11.4 - 12.7	BZX55C12	43	40 - 46	BZX55C43			
3.9	3.7 - 4.1	BZX55C3V9	13	12.4 - 14.1	BZX55C13	47	44 - 50	BZX55C47			
4.3	4.0 - 4.6	BZX55C4V3	15	13.8 - 15.6	BZX55C15	51	48 - 54	BZX55C51			
4.7	4.4 - 5.0	BZX55C4V7	16	15.3 - 17.1	BZX55C16	56	52 - 60	BZX55C56			
5.1	4.8 - 5.4	BZX55C5V1	18	16.8 - 19.1	BZX55C18	62	58 - 66	BZX55C62			
5.6	5.2 - 6.0	BZX55C5V6	20	18.8 - 21.2	BZX55C20	68	64 - 72	BZX55C68			
6.2	5.8 - 6.6	BZX55C6V2	22	20.8 - 23.3	BZX55C22	75	70 - 79	BZX55C75			
6.8	6.4 - 7.2	BZX55C6V8	24	22.8 - 25.6	BZX55C24						
7.5	7.0 - 7.9	BZX55C7V5	27	25.1 - 28.9	BZX55C27						

1.3W

BZX85 Power Rating: 1.3W			Tolerance: 5%			Manufacturer: GS			Package: DO41 Glass		
Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code
2.7	2.5 - 2.9	BZX85C2V7	8.2	7.7 - 8.7	BZX85C8V2	27	25.1 - 28.9	BZX85C27			
3.0	2.8 - 3.2	BZX85C3V0	9.1	8.5 - 9.6	BZX85C9V1	30	28 - 32	BZX85C30			
3.3	3.1 - 3.5	BZX85C3V3	10	9.4 - 10.6	BZX85C10	33	31 - 35	BZX85C33			
3.6	3.4 - 3.8	BZX85C3V6	11	10.4 - 11.6	BZX85C11	36	34 - 38	BZX85C36			
3.9	3.7 - 4.1	BZX85C3V9	12	11.4 - 12.7	BZX85C12	39	37 - 41	BZX85C39			
4.3	4.0 - 4.6	BZX85C4V3	13	12.4 - 14.1	BZX85C13	43	40 - 46	BZX85C43			
4.7	4.4 - 5.0	BZX85C4V7	15	13.8 - 15.6	BZX85C15	47	44 - 50	BZX85C47			
5.1	4.8 - 5.4	BZX85C5V1	16	15.3 - 17.1	BZX85C16	51	48 - 54	BZX85C51			
5.6	5.2 - 6.0	BZX85C5V6	18	16.8 - 19.1	BZX85C18	56	52 - 60	BZX85C56			
6.2	5.8 - 6.6	BZX85C6V2	20	18.8 - 21.2	BZX85C20	62	58 - 66	BZX85C62			
6.8	6.4 - 7.2	BZX85C6V8	22	20.8 - 23.3	BZX85C22	68	64 - 72	BZX85C68			
7.5	7.0 - 7.9	BZX85C7V5	24	22.8 - 25.6	BZX85C24	75	70 - 79	BZX85C75			

3.25W

BZT03 Power Rating: 3.25W			Tolerance: 5%			Manufacturer: Vishay Telefunken			Package: SOD57 Glass		
Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code	Regulated Voltage (V) Nom.	Range	Device & Anglia Order Code
6.2	5.8 - 6.6	BZT03C6V2	24	22.8 - 25.6	BZT03C24	91	85 - 96	BZT03C91			
6.8	6.4 - 7.2	BZT03C6V8	27	25.1 - 28.9	BZT03C27	100	94 - 106	BZT03C100			
7.5	7.0 - 7.9	BZT03C7V5	30	28 - 32	BZT03C30	110	104 - 116	BZT03C110			
8.2	7.7 - 8.7	BZT03C8V2	33	31 - 35	BZT03C33	120	114 - 127	BZT03C120			
9.1	8.5 - 9.6	BZT03C9V1	36	34 - 38	BZT03C36	130	124 - 141	BZT03C130			
10	9.4 - 10.6	BZT03C10	39	37 - 41	BZT03C39	150	138 - 156	BZT03C150			
11	10.4 - 11.6	BZT03C11	43	40 - 46	BZT03C43	160	153 - 171	BZT03C160			
12	11.4 - 12.7	BZT03C12	47	44 - 50	BZT03C47	180	168 - 191	BZT03C180			
13	12.4 - 14.1	BZT03C13	51	48 - 54	BZT03C51	200	188 - 212	BZT03C200			
15	13.8 - 15.6	BZT03C15	56	52 - 60	BZT03C56	220	208 - 233	BZT03C220			
16	15.3 - 17.1	BZT03C16	62	58 - 66	BZT03C62	240	228 - 256	BZT03C240			
18	16.8 - 19.1	BZT03C18	68	64 - 72	BZT03C68	270	251 - 289	BZT03C270			
20	18.8 - 21.2	BZT03C20	75	70 - 79	BZT03C75						
22	20.8 - 23.3	BZT03C22	82	77 - 87	BZT03C82						



SMA

SMB

300W Unidirectional

SMAJ(A) 300W Peak Power, Unidirectional (dc), 5%						Manufacturer: GS/ST						Package: SMA/DO-214AC					
Voltage (V)			Marking Code		Device & Anglia Order Code	Voltage (V)			Marking Code		Device & Anglia Order Code	Voltage (V)			Marking Code		Device & Anglia Order Code
Max. Cont.	Breakdown min.	max.	GS	ST		Max. Cont.	Breakdown min.	max.	GS	ST		Max. Cont.	Breakdown min.	max.	GS	ST	
5	6.4	7.0	AE	AE	SMAJ5.0A	18	20.0	22.1	BT	DUQ	SMAJ18A	60	66.7	73.7	RK	-	SMAJ60A
6	6.67	7.37	AG	DUB	SMAJ6.0A	20	22.2	24.5	BV	DUR	SMAJ20A	64	71.1	78.6	RM	-	SMAJ64A
6.5	7.22	7.98	AK	DUC	SMAJ6.5A	22	24.4	26.9	BX	DUS	SMAJ22A	70	77.8	86.0	RP	EUI	SMAJ70A
7	7.78	8.60	AM	-	SMAJ7.0A	24	26.7	29.5	BZ	DUT	SMAJ24A	75	83.3	92.1	RR	-	SMAJ75A
7.5	8.33	9.21	AP	-	SMAJ7.5A	26	28.9	31.9	CE	DUU	SMAJ26A	78	86.7	95.8	RT	-	SMAJ78A
8	8.89	9.83	AR	-	SMAJ8.0A	28	31.1	34.4	CG	CG	SMAJ28A	85	94.4	104	RV	EUL	SMAJ85A
8.5	9.44	10.4	AT	DUH	SMAJ8.5A	30	33.3	36.8	CK	CK	SMAJ30A	90	100	111	RX	-	SMAJ90A
9	10.0	11.1	AV	-	SMAJ9.0A	33	36.7	40.6	CM	CM	SMAJ33A	100	111	123	RZ	EUN	SMAJ100A
10	11.1	12.3	AX	AX	SMAJ10A	36	40.0	44.2	CP	-	SMAJ36A	110	122	135	SE	-	SMAJ110A
11	12.2	13.5	AZ	-	SMAJ11A	40	44.4	49.1	CR	DUZ	SMAJ40A	120	133	147	SG	-	SMAJ120A
12	13.3	14.7	BE	DUK	SMAJ12A	43	47.8	52.8	CT	EUA	SMAJ43A	130	144	159	SK	EUQ	SMAJ130A
13	14.4	15.9	BG	BG	SMAJ13A	45	50.0	55.3	CV	-	SMAJ45A	150	167	185	SM	-	SMAJ150A
14	15.6	17.2	BK	-	SMAJ14A	48	53.3	58.9	CX	CX	SMAJ48A	154	171	189	-	EUT	SMAJ154A
15	16.7	18.5	BM	BM	SMAJ15A	51	56.7	62.7	CZ	-	SMAJ51A	160	178	197	SP	-	SMAJ160A
16	17.8	19.7	BP	-	SMAJ16A	54	60.0	66.3	RE	-	SMAJ54A	170	189	209	SR	SR	SMAJ170A
17	18.9	20.9	BR	-	SMAJ17A	58	64.4	71.2	RG	EUJ	SMAJ58A	188	209	231	-	EUV	SMAJ188A

300W Bidirectional

SMAJ(CA) 300W Peak Power, Bidirectional (ac), 5%						Manufacturer: GS/ST						Package: SMA/DO-214AC					
Voltage (V)			Marking Code		Device & Anglia Order Code	Voltage (V)			Marking Code		Device & Anglia Order Code	Voltage (V)			Marking Code		Device & Anglia Order Code
Max. Cont.	Breakdown min.	max.	GS	ST		Max. Cont.	Breakdown min.	max.	GS	ST		Max. Cont.	Breakdown min.	max.	GS	ST	
5	6.4	7.07	WE	AA	SMAJ5.0CA	18	20.0	22.1	XT	DBQ	SMAJ18CA	60	66.7	73.7	ZK	-	SMAJ60CA
6	6.67	7.37	WG	DBB	SMAJ6.0CA	20	22.2	24.5	XV	DBR	SMAJ20CA	64	71.1	78.6	ZM	-	SMAJ64CA
6.5	7.22	7.98	WK	DBC	SMAJ6.5CA	22	24.4	26.9	XX	DBS	SMAJ22CA	70	77.8	86.0	ZP	EBI	SMAJ70CA
7	7.78	8.60	WM	-	SMAJ7.0CA	24	26.7	29.5	XZ	DBT	SMAJ24CA	75	83.3	92.1	ZR	-	SMAJ75CA
7.5	8.33	9.21	WP	-	SMAJ7.5CA	26	28.9	31.9	YE	DBU	SMAJ26CA	78	86.7	95.8	ZT	-	SMAJ78CA
8	8.89	9.83	WR	-	SMAJ8.0CA	28	31.1	34.4	YG	CH	SMAJ28CA	85	94.4	104	ZV	EBL	SMAJ85CA
8.5	9.44	10.4	WT	DBH	SMAJ8.5CA	30	33.3	36.8	YK	CL	SMAJ30CA	90	100	111	ZX	-	SMAJ90CA
9	10.0	11.1	WV	-	SMAJ9.0CA	33	36.7	40.6	YM	CN	SMAJ33CA	100	111	123	ZZ	EBN	SMAJ100CA
10	11.1	12.3	WX	AC	SMAJ10CA	36	40.0	44.2	YP	-	SMAJ36CA	110	122	135	VE	-	SMAJ110CA
11	12.2	13.5	WZ	-	SMAJ11CA	40	44.4	49.1	YR	DBZ	SMAJ40CA	120	133	147	VG	-	SMAJ120CA
12	13.3	14.7	XE	DBK	SMAJ12CA	43	47.8	52.8	YT	EBA	SMAJ43CA	130	144	159	VK	EBQ	SMAJ130CA
13	14.4	15.9	XG	BH	SMAJ13CA	45	50.0	55.3	YV	-	SMAJ45CA	150	167	185	VM	-	SMAJ150CA
14	15.6	17.2	XK	-	SMAJ14CA	48	53.3	58.9	YX	CY	SMAJ48CA	154	171	189	-	EBT	SMAJ154CA
15	16.7	18.5	XM	AJ	SMAJ15CA	51	56.7	62.7	YZ	-	SMAJ51CA	160	178	197	VP	-	SMAJ160CA
16	17.8	19.7	XP	-	SMAJ16CA	54	60.0	66.3	ZE	-	SMAJ54CA	170	189	209	VR	SS	SMAJ170CA
17	18.9	20.9	XR	-	SMAJ17CA	58	64.4	71.2	ZG	EBF	SMAJ58CA	188	209	231	-	EBV	SMAJ188CA

600W Unidirectional

SMBJ(A) 600W Peak Power, Unidirectional (dc), 5%						Manufacturer: GS/ST						Package: SMB/DO-214AA					
Voltage (V)			Marking Code		Device & Anglia Order Code	Voltage (V)			Marking Code		Device & Anglia Order Code	Voltage (V)			Marking Code		Device & Anglia Order Code
Max. Cont.	Breakdown min.	max.	GS	ST		Max. Cont.	Breakdown min.	max.	GS	ST		Max. Cont.	Breakdown min.	max.	GS	ST	
5	6.4	7.07	KE	BUZ	SMBJ5.0A	18	20.0	22.1	LT	BUH	SMBJ18A	60	66.7	73.7	NK	-	SMBJ60A
6	6.67	7.37	KG	BUA	SMBJ6.0A	20	22.2	24.5	LV	BUI	SMBJ20A	64	71.1	78.6	NM	-	SMBJ64A
6.5	7.22	7.98	KK	BUB	SMBJ6.5A	22	24.4	26.9	LX	BVA	SMBJ22A	70	77.8	86.0	NP	CUM	SMBJ70A
7	7.78	8.6	KM	-	SMBJ7.0A	24	26.7	29.5	LZ	BUJ	SMBJ24A	75	83.3	92.1	NR	-	SMBJ75A
7.5	8.33	9.21	KP	-	SMBJ7.5A	26	28.9	31.9	ME	BUK	SMBJ26A	78	86.7	95.8	NT	-	SMBJ78A
8	8.89	9.83	KR	-	SMBJ8.0A	28	31.1	34.4	MG	BUL	SMBJ28A	85	94.4	104	NV	BUQ	SMBJ85A
8.5	9.44	10.4	KT	BUC	SMBJ8.5A	30	33.3	36.8	MK	BUM	SMBJ30A	90	100	111	NX	-	SMBJ90A
9	10.0	11.1	KV	-	SMBJ9.0A	33	36.7	40.6	MM	BUN	SMBJ33A	100	111	123	NZ	CUQ	SMBJ100A
10	11.1	12.3	KX	BUD	SMBJ10A	36	40.0	44.2	MP	-	SMBJ36A	110	122	135	PE	-	SMBJ110A
11	12.2	13.5	KZ	-	SMBJ11A	40	44.4	49.1	MR	CUJ	SMBJ40A	120	133	147	PG	-	SMBJ120A
12	13.3	14.7	LE	BUE	SMBJ12A	43	47.8	52.8	MT	-	SMBJ43A	130	144	159	PK	BUS	SMBJ130A
13	14.4	15.9	LG	BUF	SMBJ13A	45	50.0	55.3	MV	-	SMBJ45A	150	167	185	PM	-	SMBJ150A
14	15.6	17.2	LK	-	SMBJ14A	48	53.3	58.9	MX	BUW	SMBJ48A	154	171	189	-	BUT	SMBJ154A
15	16.7	18.5	LM	BUG	SMBJ15A	51	56.7	62.7	MZ	-	SMBJ51A	160	178	197	PP	-	SMBJ160A
16	17.8	19.7	LP	-	SMBJ16A	54	60.0	66.3	NE	-	SMBJ54A	170	189	209	PR	BUU	SMBJ170A
17	18.9	20.9	LR	-	SMBJ17A	58	64.4	71.2	NG	BUO	SMBJ58A	188	209	231	-	BUV	SMBJ188A

STATE MANUFACTURER WHEN ORDERING

Surface Mount TVS Diodes continued overleaf > > >



SMB

SMC

600W Bidirectional

SMBJ(CA) 600W Peak Power, Bidirectional (ac), 5%						Manufacturer: GS/ST						Package: SMB/DO-214AA					
Voltage (V)		Marking Code		Device & Anglia Order Code		Voltage (V)		Marking Code		Device & Anglia Order Code		Voltage (V)		Marking Code		Device & Anglia Order Code	
Max. Cont.	Breakdown min. max.	GS	ST			Max. Cont.	Breakdown min. max.	GS	ST			Max. Cont.	Breakdown min. max.	GS	ST		
5	6.4	7.07	KE	BBZ	SMBJ5.0CA	18	20.0	22.1	BT	BBH	SMBJ18CA	60	66.7	73.7	NK	-	SMBJ60CA
6	6.67	7.37	KG	BBA	SMBJ6.0CA	20	22.2	24.5	LV	BBI	SMBJ20CA	64	71.1	78.6	NM	-	SMBJ64CA
6.5	7.22	7.98	AK	BBB	SMBJ6.5CA	22	24.4	26.9	BX	CBH	SMBJ22CA	70	77.8	86.0	NP	CBM	SMBJ70CA
7	7.78	8.6	KM	-	SMBJ7.0CA	24	26.7	29.5	BZ	BBJ	SMBJ24CA	75	83.3	92.1	NR	-	SMBJ75CA
7.5	8.33	9.21	AP	-	SMBJ7.5CA	26	28.9	31.9	CE	BBK	SMBJ26CA	78	86.7	95.8	NT	-	SMBJ78CA
8	8.89	9.83	AR	-	SMBJ8.0CA	28	31.1	34.4	MG	BBL	SMBJ28CA	85	94.4	104	NV	BBQ	SMBJ85CA
8.5	9.44	10.4	AT	BBC	SMBJ8.5CA	30	33.3	36.8	CK	BBM	SMBJ30CA	90	100	111	NX	-	SMBJ90CA
9	10.0	11.1	AV	-	SMBJ9.0CA	33	36.7	40.6	CM	BBN	SMBJ33CA	100	111	123	NZ	CBQ	SMBJ100CA
10	11.1	12.3	AX	BBD	SMBJ10CA	36	40	44.2	CP	-	SMBJ36CA	110	122	135	PE	-	SMBJ110CA
11	12.2	13.5	KZ	-	SMBJ11CA	40	44.4	49.1	CR	CBJ	SMBJ40CA	120	133	147	PG	-	SMBJ120CA
12	13.3	14.7	BE	BBE	SMBJ12CA	43	47.8	52.8	CT	-	SMBJ43CA	130	144	159	PK	BBS	SMBJ130CA
13	14.4	15.9	LG	BBF	SMBJ13CA	45	50	55.3	MV	-	SMBJ45CA	150	167	185	PM	-	SMBJ150CA
14	15.6	17.2	BK	-	SMBJ14CA	48	53.3	58.9	MX	BBW	SMBJ48CA	154	171	189	-	BBT	SMBJ154CA
15	16.7	18.5	BM	BBG	SMBJ15CA	51	56.7	62.7	MZ	-	SMBJ51CA	160	178	197	PP	-	SMBJ160CA
16	17.8	19.7	LM	-	SMBJ16CA	54	60	66.3	NE	-	SMBJ54CA	170	189	209	PR	BBU	SMBJ170CA
17	18.9	20.9	LR	-	SMBJ17CA	58	64.4	71.2	NG	BBO	SMBJ58CA	188	209	231	-	BBV	SMBJ188CA

1500W Unidirectional

SMCJ(A) 1500W Peak Power, Unidirectional (dc), 5%						Manufacturer: GS/ST						Package: SMC/DO-214AB					
Voltage (V)		Marking Code		Device & Anglia Order Code		Voltage (V)		Marking Code		Device & Anglia Order Code		Voltage (V)		Marking Code		Device & Anglia Order Code	
Max. Cont.	Breakdown min. max.	GS	ST			Max. Cont.	Breakdown min. max.	GS	ST			Max. Cont.	Breakdown min. max.	GS	ST		
5	6.4	7.07	GDE	FUA	SMCJ5.0A	18	20.0	22.1	GET	FUL	SMCJ18A	60	66.7	73.7	GGK	GUA	SMCJ60A
6	6.7	7.37	GDG	FUB	SMCJ6.0A	20	22.2	24.5	GEV	FUM	SMCJ20A	64	71.1	78.6	GGM	-	SMCJ64A
6.5	7.2	7.98	GDK	FUC	SMCJ6.5A	22	24.4	26.9	GEX	FUN	SMCJ22A	70	77.8	86.0	GGP	GUB	SMCJ70A
7	7.8	8.6	GDM	-	SMCJ7.0A	24	26.7	29.5	GEZ	FUO	SMCJ24A	75	83.3	92.1	GGR	-	SMCJ75A
7.5	8.3	9.21	GDP	-	SMCJ7.5A	26	28.9	31.9	GFE	FUP	SMCJ26A	78	86.7	95.8	GGT	-	SMCJ78A
8	8.9	9.83	GDR	-	SMCJ8.0A	28	31.1	34.4	GFG	FUQ	SMCJ28A	85	94.4	104	GGV	GUE	SMCJ85A
8.5	9.4	10.4	GDT	FUD	SMCJ8.5A	30	33.3	36.8	GFK	FUR	SMCJ30A	90	100	111	GGX	-	SMCJ90A
9	10.0	11.1	GDV	-	SMCJ9.0A	33	36.7	40.6	GFM	FUS	SMCJ33A	100	111	123	GGZ	GUG	SMCJ100A
10	11.1	12.3	GDX	FUF	SMCJ10A	36	40.0	44.2	GFP	-	SMCJ36A	110	122	135	GHE	-	SMCJ110A
11	12.2	13.5	GDZ	-	SMCJ11A	40	44.4	49.1	GFR	FUU	SMCJ40A	120	133	147	GHG	-	SMCJ120A
12	13.3	14.7	GEE	FUH	SMCJ12A	43	47.8	52.8	GFT	-	SMCJ43A	130	144	159	GHK	GUI	SMCJ130A
13	14.4	15.9	GEG	FUI	SMCJ13A	45	50.0	55.3	GFV	-	SMCJ45A	150	167	185	GHM	-	SMCJ150A
14	15.6	17.2	GEK	-	SMCJ14A	48	53.3	58.9	GFX	FUW	SMCJ48A	154	171	189	-	GUL	SMCJ154A
15	16.7	18.5	GEM	FUJ	SMCJ15A	51	56.7	62.7	GFZ	-	SMCJ51A	160	178	197	GHP	-	SMCJ160A
16	17.8	19.7	GEP	-	SMCJ16A	54	60.0	66.3	GGE	-	SMCJ54A	170	189	209	GHR	GUM	SMCJ170A
17	18.9	20.9	GER	-	SMCJ17A	58	64.4	71.2	GGG	FUZ	SMCJ58A	188	209	231	-	GUN	SMCJ188A

1500W Bidirectional

SMCJ(CA) 1500W Peak Power, Bidirectional (ac), 5%						Manufacturer: GS/ST						Package: SMC/DO-214AB					
Voltage (V)		Marking Code		Device & Anglia Order Code		Voltage (V)		Marking Code		Device & Anglia Order Code		Voltage (V)		Marking Code		Device & Anglia Order Code	
Max. Cont.	Breakdown min. max.	GS	ST			Max. Cont.	Breakdown min. max.	GS	ST			Max. Cont.	Breakdown min. max.	GS	ST		
5	6.4	7.07	GDE	FBA	SMCJ5.0CA	18	20.0	22.1	BET	FBL	SMCJ18CA	60	66.7	73.7	GGR	GBA	SMCJ60CA
6	6.7	7.37	GDG	FBB	SMCJ6.0CA	20	22.2	24.5	BEV	FBM	SMCJ20CA	64	71.1	78.6	GGM	-	SMCJ64CA
6.5	7.2	7.98	BDK	FBC	SMCJ6.5CA	22	24.4	26.9	BEX	FBN	SMCJ22CA	70	77.8	86.0	GGP	GBB	SMCJ70CA
7	7.8	8.6	GDM	-	SMCJ7.0CA	24	26.7	29.5	BEZ	FBO	SMCJ24CA	75	83.3	92.1	GGR	-	SMCJ75CA
7.5	8.3	9.21	BDP	-	SMCJ7.5CA	26	28.9	31.9	BFE	FBP	SMCJ26CA	78	86.7	95.8	GGT	-	SMCJ78CA
8	8.9	9.83	BDR	-	SMCJ8.0CA	28	31.1	34.4	BFG	FBQ	SMCJ28CA	85	94.4	104	GGV	GBE	SMCJ85CA
8.5	9.4	10.4	BDT	FBD	SMCJ8.5CA	30	33.3	36.8	BFK	FBR	SMCJ30CA	90	100	111	GGX	-	SMCJ90CA
9	10.0	11.1	BDV	-	SMCJ9.0CA	33	36.7	40.6	BFM	FBS	SMCJ33CA	100	111	123	GGZ	GBG	SMCJ100CA
10	11.1	12.3	BDX	FBF	SMCJ10CA	36	40.0	44.2	BFP	-	SMCJ36CA	110	122	135	GHE	-	SMCJ110CA
11	12.2	13.5	GDZ	-	SMCJ11CA	40	44.4	49.1	BFR	FBU	SMCJ40CA	120	133	147	GHG	-	SMCJ120CA
12	13.3	14.7	BEE	FBH	SMCJ12CA	43	47.8	52.8	BFT	-	SMCJ43CA	130	144	159	GHK	GBI	SMCJ130CA
13	14.4	15.9	GEG	FBI	SMCJ13CA	45	50.0	55.3	GFV	-	SMCJ45CA	150	167	185	GHM	-	SMCJ150CA
14	15.6	17.2	BEK	-	SMCJ14CA	48	53.3	58.9	GFX	FBW	SMCJ48CA	154	171	189	-	GBL	SMCJ154CA
15	16.7	18.5	BEM	FBJ	SMCJ15CA	51	56.7	62.7	GFZ	-	SMCJ51CA	160	178	197	GHP	-	SMCJ160CA
16	17.8	19.7	GEP	-	SMCJ16CA	54	60.0	66.3	GGE	-	SMCJ54CA	170	189	209	GHR	GBM	SMCJ170CA
17	18.9	20.9	GER	-	SMCJ17CA	58	64.4	71.2	GGG	FBZ	SMCJ58CA	188	209	231	-	GBN	SMCJ188CA

STATE MANUFACTURER WHEN ORDERING



DO41

DO15

400W Unidirectional

P4KE(A) 400W Peak Power, Unidirectional (dc), 5%				Manufacturer: GS				Package: DO41			
Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code
	min.	max.			min.	max.			min.	max.	
5.8	6.45	7.14	P4KE6.8A	25.6	28.5	31.5	P4KE30A	102	114	126	P4KE120A
6.4	7.13	7.88	P4KE7.5A	28.2	31.4	34.7	P4KE33A	111	124	137	P4KE130A
7.02	7.79	8.61	P4KE8.2A	30.8	34.2	37.8	P4KE36A	128	143	158	P4KE150A
7.78	8.65	9.55	P4KE9.1A	33.3	37.1	41	P4KE39A	136	152	168	P4KE160A
8.55	9.5	10.5	P4KE10A	36.8	40.9	45.2	P4KE43A	145	162	179	P4KE170A
9.4	10.5	11.6	P4KE11A	40.2	44.7	49.4	P4KE47A	154	171	189	P4KE180A
10.2	11.4	12.6	P4KE12A	43.6	48.5	53.6	P4KE51A	171	190	210	P4KE200A
11.1	12.4	13.7	P4KE13A	47.8	53.2	58.8	P4KE56A	185	209	231	P4KE220A
12.8	14.3	15.8	P4KE15A	53.0	58.9	65.1	P4KE62A	214	237	263	P4KE250A
13.6	15.2	16.8	P4KE16A	58.1	64.6	71.4	P4KE68A	256	285	315	P4KE300A
15.3	17.1	18.9	P4KE18A	64.1	71.3	78.8	P4KE75A	300	333	368	P4KE350A
17.1	19.0	21.0	P4KE20A	70.1	77.9	86.1	P4KE82A	342	380	420	P4KE400A
18.8	20.9	23.1	P4KE22A	77.8	86.5	95.5	P4KE91A	376	418	462	P4KE440A
20.5	22.8	25.2	P4KE24A	85.5	95	105	P4KE100A				
23.2	25.7	28.4	P4KE27A	94.0	105	116	P4KE110A				

10% tolerance on breakdown voltage also available

400W Bidirectional

P4KE(CA) 400W Peak Power, Bidirectional (ac), 5%				Manufacturer: GS				Package: DO41			
Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code
	min.	max.			min.	max.			min.	max.	
5.8	6.45	7.14	P4KE6.8CA	25.6	28.5	31.5	P4KE30CA	102	114	126	P4KE120CA
6.4	7.13	7.88	P4KE7.5CA	28.2	31.4	34.7	P4KE33CA	111	124	137	P4KE130CA
7.02	7.79	8.61	P4KE8.2CA	30.6	34.2	37.8	P4KE36CA	128	143	158	P4KE150CA
7.78	8.65	9.55	P4KE9.1CA	33.3	37.1	41	P4KE39CA	136	152	168	P4KE160CA
8.55	9.5	10.5	P4KE10CA	36.8	40.9	45.2	P4KE43CA	145	162	179	P4KE170CA
9.4	10.5	11.8	P4KE11CA	40.2	44.7	49.4	P4KE47CA	154	171	189	P4KE180CA
10.2	11.4	12.6	P4KE12CA	43.6	48.5	53.6	P4KE51CA	171	195	210	P4KE200CA
11.1	12.4	13.7	P4KE13CA	47.8	53.2	58.8	P4KE56CA	195	209	231	P4KE220CA
12.8	14.3	15.8	P4KE15CA	53.0	58.9	65.1	P4KE62CA	214	237	263	P4KE250CA
13.6	15.2	16.9	P4KE16CA	58.1	64.6	71.4	P4KE68CA	256	285	315	P4KE300CA
15.3	17.1	18.9	P4KE18CA	64.1	71.3	78.8	P4KE75CA	300	332	368	P4KE350CA
17.1	19.0	21.0	P4KE20CA	70.1	77.9	86.1	P4KE82CA	342	380	420	P4KE400CA
18.8	20.9	23.1	P4KE22CA	77.8	86.5	95.5	P4KE91CA	376	418	462	P4KE440CA
20.5	22.8	25.2	P4KE24CA	85.5	95	105	P4KE100CA				
23.2	25.7	28.4	P4KE27CA	94.0	105	116	P4KE110CA				

10% tolerance on breakdown voltage also available

500W Unidirectional



SA(A) 500W Peak Power, Unidirectional (dc), 5%				Manufacturer: GS				Package: DO15			
Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code
	min.	max.			min.	max.			min.	max.	
5.0	6.40	7.00	SA5.0A	18	20.0	22.1	SA18A	60	66.7	73.7	SA60A
6.0	6.67	7.37	SA6.0A	20	22.2	24.5	SA20A	64	71.1	78.6	SA64A
6.5	7.22	7.98	SA6.5A	22	24.4	26.9	SA22A	70	77.8	86.0	SA70A
7.0	7.78	8.60	SA7.0A	24	26.7	29.5	SA24A	75	83.3	92.1	SA75A
7.5	8.33	9.21	SA7.5A	26	28.9	31.9	SA26A	78	86.7	95.8	SA78A
8.0	8.89	9.83	SA8.0A	28	31.1	34.4	SA28A	85	94.4	104.0	SA85A
8.5	9.44	10.4	SA8.5A	30	33.3	36.8	SA30A	90	100.0	111.0	SA90A
9.0	10.0	11.1	SA9.0A	33	36.7	40.6	SA33A	100	111.0	123.0	SA100A
10	11.1	12.3	SA10A	36	40.0	44.2	SA36A	110	122.0	135.0	SA110A
11	12.2	13.5	SA11A	40	44.4	49.1	SA40A	120	133.0	147.0	SA120A
12	13.3	14.7	SA12A	43	47.8	52.8	SA43A	130	144.0	159.0	SA130A
13	14.4	15.9	SA13A	45	50.0	55.3	SA45A	150	167.0	185.0	SA150A
14	15.6	17.2	SA14A	48	53.3	58.9	SA48A	160	178.0	197.0	SA160A
15	16.7	18.5	SA15A	51	56.7	62.7	SA51A	170	189.0	209.0	SA170A
16	17.8	19.7	SA16A	54	60.0	66.3	SA54A				
17	18.9	20.9	SA17A	58	64.4	71.2	SA58A				

10% tolerance on breakdown voltage also available

Through Hole TVS Diodes continued overleaf > > >



DO15

500W Bidirectional

NEW

SA(CA) 500W Peak Power, Bidirectional (ac), 5%				Manufacturer: GS				Package: DO15			
Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code
	min.	max.			min.	max.			min.	max.	
5	6.40	7.00	SA5.0CA	18	20.0	22.1	SA18CA	60	66.7	73.7	SA60CA
6	6.67	7.37	SA6.0CA	20	22.2	24.5	SA20CA	64	71.1	78.6	SA64CA
6.5	7.22	7.98	SA6.5CA	22	24.4	26.9	SA22CA	70	77.8	86.0	SA70CA
7	7.78	8.60	SA7.0CA	24	26.7	29.5	SA24CA	75	83.3	92.1	SA75CA
7.5	8.33	9.21	SA7.5CA	26	28.9	31.9	SA26CA	78	86.7	95.8	SA78CA
8	8.89	9.83	SA8.0CA	28	31.1	34.4	SA28CA	85	94.4	104.0	SA85CA
8.5	9.44	10.4	SA8.5CA	30	33.3	36.8	SA30CA	90	100.0	111.0	SA90CA
9	10.0	11.1	SA9.0CA	33	36.7	40.6	SA33CA	100	111.0	123.0	SA100CA
10	11.1	12.3	SA10CA	36	40.0	44.2	SA36CA	110	122.0	135.0	SA110CA
11	12.2	13.5	SA11CA	40	44.4	49.1	SA40CA	120	133.0	147.0	SA120CA
12	13.3	14.7	SA12CA	43	47.8	52.8	SA43CA	130	144.0	159.0	SA130CA
13	14.4	15.9	SA13CA	45	50.0	55.3	SA45CA	150	167.0	185.0	SA150CA
14	15.6	17.2	SA14CA	48	53.3	58.9	SA48CA	160	178.0	197.0	SA160CA
15	16.7	18.5	SA15CA	51	56.7	62.7	SA51CA	170	189.0	209.0	SA170CA
16	17.8	19.7	SA16CA	54	60.0	66.3	SA54CA				
17	18.9	20.9	SA17CA	58	64.4	71.2	SA58CA				

10% tolerance on breakdown voltage also available

600W Unidirectional

P6KE(A) 600W Peak Power, Unidirectional (dc), 5%				Manufacturer: GS/ST				Package: DO15			
Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code
	min.	max.			min.	max.			min.	max.	
5.80	6.46	7.14	P6KE6.8A	25.6	28.5	31.5	P6KE30A	102	114	126	P6KE120A
6.40	7.13	7.88	P6KE7.5A	28.2	31.4	34.7	P6KE33A	111	124	137	P6KE130A
7.02	7.79	8.61	P6KE8.2A	30.8	34.2	37.8	P6KE36A	128	143	158	P6KE150A
7.78	8.65	9.55	P6KE9.1A	33.3	37.1	41	P6KE39A	136	152	168	P6KE160A
8.55	9.5	10.5	P6KE10A	36.8	40.9	45.2	P6KE43A	145	162	179	P6KE170A
9.40	10.5	11.6	P6KE11A	40.2	44.7	49.4	P6KE47A	154	171	189	P6KE180A
10.2	11.4	12.6	P6KE12A	43.6	48.5	53.6	P6KE51A	171	190	210	P6KE200A
11.1	12.4	13.7	P6KE13A	47.8	53.2	58.8	P6KE56A	185	209	231	P6KE220A
12.8	14.3	15.8	P6KE15A	53.0	58.9	65.1	P6KE62A	214	237	263	P6KE250A
13.6	15.2	16.8	P6KE16A	58.1	64.6	71.4	P6KE68A	256	285	315	P6KE300A
15.3	17.1	18.9	P6KE18A	64.1	71.3	78.8	P6KE75A	300	333	368	P6KE350A
17.1	19.0	21.0	P6KE20A	70.1	77.9	86.1	P6KE82A	342	380	420	P6KE400A
18.8	20.9	23.1	P6KE22A	77.8	86.5	95.5	P6KE91A	376	418	462	P6KE440A
20.5	22.8	25.2	P6KE24A	85.5	95	105	P6KE100A				
23.1	25.7	28.4	P6KE27A	94.0	105	116	P6KE110A				

10% tolerance on breakdown voltage also available

600W Bidirectional

P6KE(CA) 600W Peak Power, Bidirectional (ac), 5%				Manufacturer: GS/ST				Package: DO15			
Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown		Device & Anglia Order Code
	min.	max.			min.	max.			min.	max.	
5.80	6.46	7.14	P6KE6.8CA	25.6	28.5	31.5	P6KE30CA	102	114	126	P6KE120CA
6.40	7.13	7.88	P6KE7.5CA	28.2	31.4	34.7	P6KE33CA	111	124	137	P6KE130CA
7.02	7.79	8.61	P6KE8.2CA	30.8	34.2	37.8	P6KE36CA	128	143	158	P6KE150CA
7.78	8.65	9.55	P6KE9.1CA	33.3	37.1	41	P6KE39CA	136	152	168	P6KE160CA
8.55	9.5	10.5	P6KE10CA	36.8	40.9	45.2	P6KE43CA	145	162	179	P6KE170CA
9.40	10.5	11.6	P6KE11CA	40.2	44.7	49.4	P6KE47CA	154	171	189	P6KE180CA
10.2	11.4	12.6	P6KE12CA	43.6	48.5	53.6	P6KE51CA	171	190	210	P6KE200CA
11.1	12.4	13.7	P6KE13CA	47.8	53.2	58.8	P6KE56CA	185	209	231	P6KE220CA
12.8	14.3	15.8	P6KE15CA	53	58.9	65.1	P6KE62CA	214	237	263	P6KE250CA
13.6	15.2	16.8	P6KE16CA	58.1	64.6	71.4	P6KE68CA	256	285	315	P6KE300CA
15.3	17.1	18.9	P6KE18CA	64.1	71.3	78.8	P6KE75CA	300	333	368	P6KE350CA
17.1	19.0	21.0	P6KE20CA	70.1	77.9	86.1	P6KE82CA	342	380	420	P6KE400CA
18.8	20.9	23.1	P6KE22CA	77.8	86.5	95.5	P6KE91CA	376	418	462	P6KE440CA
20.5	22.8	25.2	P6KE24CA	85.5	95	105	P6KE100CA				
23.1	25.7	28.4	P6KE27CA	94	105	116	P6KE110CA				

10% tolerance on breakdown voltage also available

STATE MANUFACTURER WHEN ORDERING



CB429
1.5KE

1500W Unidirectional

1N5908, 5V Logic Circuit Protection		1500W P/P, Unidirectional (dc)		Manufacturer: ST		Package: CB429	
V _{RM} (V)	I _{FSM} (A)	I _{RM} (μA) at V _{RM}	V _{BR} (V) at I _R (mA)		Device & Anglia Order Code		
5	200	300	6	1	1N5908		

1.5KE(A)			1500W Peak Power, Unidirectional (dc), 5%			Manufacturer: GS/ST			Package: 1.5KE/CB429		
Max. Continuous	Voltage (V) Breakdown min.	max.	Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown min.	max.	Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown min.	max.	Device & Anglia Order Code
5.8	6.46	7.14	1.5KE6.8A	25.6	28.5	31.5	1.5KE30A	102	114	126	1.5KE120A
6.4	7.13	7.88	1.5KE7.5A	28.2	31.4	34.7	1.5KE33A	111	124	137	1.5KE130A
7.02	7.79	8.61	1.5KE8.2A	30.8	34.2	37.8	1.5KE36A	128	143	158	1.5KE150A
7.78	8.65	9.55	1.5KE9.1A	33.3	37.1	41.0	1.5KE39A	136	152	168	1.5KE160A
8.55	9.5	10.5	1.5KE10A	36.8	40.9	45.2	1.5KE43A	145	162	179	1.5KE170A
9.40	10.5	11.6	1.5KE11A	40.2	44.7	49.4	1.5KE47A	154	171	189	1.5KE180A
10.2	11.4	12.6	1.5KE12A	43.6	48.5	53.6	1.5KE51A	171	190	210	1.5KE200A
11.1	12.4	13.7	1.5KE13A	47.8	53.2	58.8	1.5KE56A	185	209	231	1.5KE220A
12.8	14.3	15.8	1.5KE15A	53.0	58.9	65.1	1.5KE62A	214	237	263	1.5KE250A
13.6	15.2	16.8	1.5KE16A	58.1	64.6	71.4	1.5KE68A	256	285	315	1.5KE300A
15.3	17.1	18.9	1.5KE18A	64.1	71.3	78.8	1.5KE75A	300	330	368	1.5KE350A
17.1	19.0	21.0	1.5KE20A	70.1	77.9	86.1	1.5KE82A	342	380	420	1.5KE400A
18.8	20.9	23.1	1.5KE22A	77.8	86.5	95.5	1.5KE91A	376	418	462	1.5KE440A
20.5	22.8	25.2	1.5KE24A	85.5	95.0	105	1.5KE100A				
23.1	25.7	28.4	1.5KE27A	94.0	105	116	1.5KE110A				

10% tolerance on breakdown voltage also available

1500W Bidirectional

1.5KE(CA)			1500W Peak Power, Bidirectional (ac), 5%			Manufacturer: GS/ST			Package: 1.5KE/CB429		
Max. Continuous	Voltage (V) Breakdown min.	max.	Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown min.	max.	Device & Anglia Order Code	Max. Continuous	Voltage (V) Breakdown min.	max.	Device & Anglia Order Code
5.8	6.46	7.14	1.5KE6.8CA	25.6	28.5	31.5	1.5KE30CA	102	114	126	1.5KE120CA
6.4	7.13	7.88	1.5KE7.5CA	28.2	31.4	34.7	1.5KE33CA	111	124	137	1.5KE130CA
7.02	7.79	8.61	1.5KE8.2CA	30.8	34.2	37.8	1.5KE36CA	128	143	158	1.5KE150CA
7.78	8.65	9.55	1.5KE9.1CA	33.3	37.1	41.0	1.5KE39CA	136	152	168	1.5KE160CA
8.55	9.5	10.5	1.5KE10CA	36.8	40.9	45.2	1.5KE43CA	145	162	179	1.5KE170CA
9.4	10.5	11.6	1.5KE11CA	40.2	44.7	49.4	1.5KE47CA	154	171	189	1.5KE180CA
10.2	11.4	12.6	1.5KE12CA	43.6	48.5	53.6	1.5KE51CA	171	190	210	1.5KE200CA
11.1	12.4	13.7	1.5KE13CA	47.8	53.2	58.8	1.5KE56CA	185	209	231	1.5KE220CA
12.8	14.3	15.8	1.5KE15CA	53.0	58.9	65.1	1.5KE62CA	214	237	263	1.5KE250CA
13.6	15.2	16.8	1.5KE16CA	58.1	64.6	71.4	1.5KE68CA	256	285	315	1.5KE300CA
15.3	17.1	18.9	1.5KE18CA	64.1	71.3	78.8	1.5KE75CA	300	330	368	1.5KE350CA
17.1	19.0	21.0	1.5KE20CA	70.1	77.9	86.1	1.5KE82CA	342	380	420	1.5KE400CA
18.8	20.9	23.1	1.5KE22CA	77.8	86.5	95.5	1.5KE91CA	376	418	462	1.5KE440CA
20.5	22.8	25.2	1.5KE24CA	85.5	95.0	105	1.5KE100CA				
23.1	25.7	28.4	1.5KE27CA	94.0	105	116	1.5KE110CA				

10% tolerance on breakdown voltage also available



For the very latest information on the full range of General Semiconductor products available from Anglia, please contact our Sales Desk.



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Alternatively the guide may be viewed or downloaded from the Anglia website:

www.angliac.com

STATE MANUFACTURER WHEN ORDERING



SMA
1F
M1F



SMB
DO214BA

GENERAL PURPOSE

1 Amp			Manufacturer: GS/Invac				Package: SMA/DO214AC	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Manufacturer	Device & Anglia Order Code
50	1	100*	40	1.1	1	1	GS	S1A
						5	Invac	
100						1	GS	S1B
						5	Invac	
200						1	GS	S1D
						5	Invac	
400			1			GS	S1G	
			5			Invac		
600			1			GS	S1J	
						Invac		
800			GS	S1K				
			Invac					
1000			GS	S1M				
			Invac					

*Invac diodes measured at 75°C

STATE MANUFACTURER WHEN ORDERING

1 Amp				Manufacturer: Invac		Package: SMB/DO214AA	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code
50	1	75	30	1.1	1	5	IS1A
100							IS1B
200							IS1D
400							IS1G
600							IS1J
800							IS1K
1000							IS1M

NEW

NEW

1 Amp			Manufacturer: GS			Package: DO214BA	
V _{RRM} (V)	I _{FAV} (A) at T _L (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code
50	1	125	30	1.1	1	5	GF1A
100							GF1B
200							GF1D
400							GF1G
600				GF1J			
800				GF1K			
1000				GF1M			

NEW

NEW

1 Amp			Manufacturer: Shindengen			Package: 1F	
V _{RM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _{FAV}	I _R (μA) at V _{RM}	Device & Anglia Order Code	
600	1	25	25	1.1	10	D1F60	

NEW

NEW

1 Amp		Manufacturer: Shindengen				Package: M1F	
V _{RM} (V)	I _{FAV} (A)* at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _{FAV}	I _R (μA) at V _{RM}	Device & Anglia Order Code	
600	1	25	25	1.1	10	M1F60	
800						M1F80	

* On aluminium substrate





SHINDENGEN



1Z

SMA
1F/2F

SMB

GENERAL PURPOSE continued**NEW****1.1 Amp, Dual**

Manufacturer: Shindengen

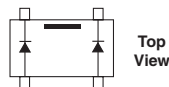
Package: 1Z

V_{RM} (V)	I_{FAV} (A)* at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at 0.9A†	I_R (μA) at V_{RM} †	Device & Anglia Order Code
200	1.1	25	30	1.1	10	S1ZA20
600						S1ZA60

* Total for both diodes

† Rating per diode

S1Z Circuit Diagram

**NEW****1.4 Amp**

Manufacturer: Shindengen

Package: 2F

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	Device & Anglia Order Code
200	1.4	25	60	1.05	10	D2F20
600						D2F60

1.5 Amp

Manufacturer: GS

Package: SMB/DO214AA

V_{RRM} (V)	I_{FAV} (A) at T_L (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	1.5	100	50	1.15	1.5	1	S2A
100							S2B
200							S2D
400							S2G
600							S2J
800							S2K
1000							S2M

FAST RECOVERY**1 Amp**

Manufacturer: GS

Package: SMA/DO214AC

V_{RRM} (V)	I_{FAV} (A) at T_L (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	t_{rr} (ns)	Device & Anglia Order Code
50	1	90	30	1.3	1	5	150	RS1A
100								RS1B
200								RS1D
400								RS1G
600						5	250	RS1J
800								RS1K

ULTRA-FAST RECOVERY**NEW****0.8 - 1.1 Amp**

Manufacturer: Shindengen

Package: 1F

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	1.1	25	20	0.98	10	35	D1FL20U
400	0.8		25	1.3		50	D1FL40

1 Amp

Manufacturer: GS

Package: SMA/DO214AC

V_{RRM} (V)	I_{FAV} (A) at T_L (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	t_{rr} (ns)	Device & Anglia Order Code
50	1	120	30	0.92	1	5	25	ES1A
100								ES1B
150								ES1C
200								ES1D

Surface Mount Rectifier Diodes continued overleaf > > >





SHINDENG



M1F
2F



E-Pack



SMC



STO220

ULTRA-FAST RECOVERY continued

NEW

1.1 Amp

Manufacturer: Shindengen

Package: M1F

V_{RM} (V)	I_{FAV} (A)* at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	1.1	25	0.98	10	35	M1FL20U

* On aluminium substrate

NEW

1.3 - 1.5 Amp

Manufacturer: Shindengen

Package: 2F

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	1.5	50	0.98	10	35	D2FL20U
400	1.3	40	1.3		50	D2FL40

NEW

3 Amp

Manufacturer: Shindengen

Package: E-Pack

V_{RM} (V)	I_{FAV} (A) at T_C (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	3	113	0.98	10	35	DE3L20U
400		99	1.3		50	DE3L40

NEW

3 Amp

Manufacturer: GS

Package: SMC/DO214AB

V _{RRM} (V)	I _{FAV} (A) at T _L (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	t _{Tr} (ns)	Device & Anglia Order Code
50	3	100	100	0.9	3	10	30	ES3A
100								ES3B
150				ES3C				
200				ES3D				
300				ES3F				
400				ES3G				
				1.1			35	

NEW

5 Amp, Dual

Manufacturer: Shindengen

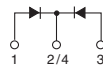
Package: E-Pack

V_{RM} (V)	I_{FAV} (A)* at T_C (°C)	I_{FSM} (A)	V_F (V) at 2.5A†	I_R (μA) at V_{RM} †	t_{rr} (ns)	Device & Anglia Order Code
200	5	81	0.98	10	35	DE5LC20U
400		61	1.3		50	DE5LC40

* Total for both diodes

† Rating per diode

DE5 Circuit Diagram



NEW

10/20 Amp

Manufacturer: Shindengen

Package: STO220

V_{RM} (V)	I_{FAV} (A)* at T_C (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
600	10	105	2	10	50	DF10L60
	20	84			70	DF20L60

NEW

10/20 Amp, Dual

Manufacturer: Shindengen

Package: STO220

V_{RM} (V)	I_{FAV} (A)* at T_C (°C)	I_{FSM} (A)	V_F (V) at I_{FAV} † (A)	I_R (μA) at V_{RM} †	t_{rr} (ns)	Device & Anglia Order Code
200	10	127	0.98	10	35	DF10LC20U
	20	114				DF20LC20U

* Total for both diodes

† Rating per diode

DF10/DF20 Circuit Diagram



For Schottky rectifier diodes see page 436-442





R-1
AX057



DO41
DO41 mod

GENERAL PURPOSE

NEW

1 Amp, Miniature/0.6mm Dia. Wires

Manufacturer: Invac

Package: R-1

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	1	25	25	1.1	1	5	1A1
100							1A2
200							1A3
400							1A4
600							1A5
800							1A6
1000							1A7

NEW

1 Amp, Miniature/0.6mm Dia. Wires

Manufacturer: Shindengen

Package: AX057

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	Device & Anglia Order Code
200	1	25	30	1.05	10	D1N20
600						D1N60

1 Amp, 0.8mm Dia. Wires

Manufacturer: GS/Invac

Package: DO41

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	1	75	30	1.1	1	5	1N4001
100							1N4002
200							1N4003
400							1N4004
600							1N4005
800							1N4006
1000							1N4007

1 Amp, 0.6mm Dia. Wires

Manufacturer: Invac

Package: DO41 mod/A405

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	1	75	30	1.1	1	5	1N4001S
100							1N4002S
200							1N4003S
400							1N4004S
600							1N4005S
800							1N4006S
1000							1N4007S

1 Amp, Glass Passivated

Manufacturer: GS

Package: DO41

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	1	75	30	1.1	1	5	1N4001GP
100							1N4002GP
200							1N4003GP
400							1N4004GP
600							1N4005GP
800							1N4006GP
1000							1N4007GP

1 Amp, High Voltage

Manufacturer: Invac

Package: DO41

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
1300	1	75	30	1.1	1	5	BY133
2000*							EM518

*Especially suited for the lighting market.

For Schottky rectifier diodes see page 436-442

Through Hole Rectifier Diodes continued overleaf > > >



DO15

DO201AD

R-6

GENERAL PURPOSE

continued

1.5 Amp						Manufacturer: Invac		Package: DO15	
V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}		Device & Anglia Order Code	
50	1.5	75	50	1.4	1.5	5		1N5391	
100								1N5392	
200								1N5393	
300								1N5394	
400								1N5395	
500								1N5396	
600								1N5397	
800								1N5398	
1000								1N5399	

2 Amp						Manufacturer: Invac		Package: DO15	
V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}		Device & Anglia Order Code	
50	2	75	70	1.1	2	5		RL201	
100								RL202	
200								RL203	
400								RL204	
600								RL205	
800								RL206	
1000								RL207	

3 Amp						Manufacturer: Invac		Package: DO201AD	
V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}		Device & Anglia Order Code	
50	3	75	200	1.2	3	5		1N5400	
100								1N5401	
200								1N5402	
400								1N5404	
600								1N5406	
800								1N5407	
1000								1N5408	

6 Amp						Manufacturer: Invac		Package: R-6	
V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}		Device & Anglia Order Code	
50	6	60	400	0.95	6	10		6A05	
100								6A1	
200								6A2	
400								6A4	
600								6A6	
800								6A8	
1000								6A10	



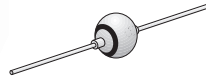
For the very latest information and product news
on the full range of Invac products,
refer to the Invac website:

www.invac.com

For Schottky rectifier diodes see page 436-442



DO41

DO204AP
G4

AX057

FAST SWITCHING**NEW****1 Amp, 0.8mm Dia. Wires**

Manufacturer: GS

Package: DO41

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	t_{rr} (ns) at 1A	Device & Anglia Order Code
50	1	75	1.2	1	200	1N4933
100						1N4934
200						1N4935
400						1N4936
600						1N4937

NEW**1 Amp, High Voltage**

Manufacturer: GS

Package: DO41

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	t_{rr} (ns) at 0.5A	Device & Anglia Order Code
800	1	40	2.5	5	75	BYV26D
1000						BYV26E

NEW**1.5 Amp, Glass Passivated**

Manufacturer: GS

Package: DO204AP

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	t_{rr} (ns) at 0.5A	Device & Anglia Order Code
200	1.5	55	1.6	1.5	250	BYV95A
400						BYV95B
600						BYV95C
800					300	BYV95D
1000						BYV95E

NEW**3.5 Amp, Glass Passivated**

Manufacturer: GS

Package: G4

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	t_{rr} (ns) at 0.5A	Device & Anglia Order Code
50	3.5	50	1.1	3.5	30	BYV28-50
100						BYV28-100
150						BYV28-150
200						BYV28-200

FAST RECOVERY**NEW****0.8 Amp**

Manufacturer: Shindengen

Package: AX057

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
600	0.8	25	1.7	10	400	D1NF60

1 Amp

Manufacturer: Invac

Package: DO41

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	t_{rr} (ns)	Device & Anglia Order Code
400	1	75	1.3	5	300	BA157
600						BA158
1000					500	BA159

For Schottky rectifier diodes see page 436-442

Ultra-Fast Recovery Rectifier Diodes
shown overleaf > > >



AX057



DO41



AX10
AX14



ITO220



DO201AD

ULTRA-FAST RECOVERY

NEW

0.9 - 1 Amp, Miniature/0.6mm Dia. Wires

Manufacturer: Shindengen

Package: AX057

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	1	25	0.98	10	35	D1NL20U
400	0.9		1.3		50	D1NL40

1 Amp, 0.8mm Dia. Wires

Manufacturer: GS/Invac

Package: DO41

V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	t _{rr} (ns)	Device & Anglia Order Code
50	1	55	30	1	1	10*	50	UF4001
100								UF4002
200								UF4003
400								UF4004
600				1.7			75	UF4005
800								UF4006
1000								UF4007

*Invac value = 5μA

NEW

1.1/1.5 Amp

Manufacturer: Shindengen

Package: AX10

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	1.5	50	0.98	10	35	S2L20U
400	1.1	40	1.3		50	S2L40
600	1.5	50	1.5			S2L60

* at T_L (°C)

NEW

2.2/3 Amp

Manufacturer: Shindengen

Package: AX14

V_{RM} (V)	I_{FAV} (A) at T_L (°C)	I_{FSM} (A)	V_F (V) at I_{FAV} (A)	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	3	60	0.98	10	35	S3L20U
400			1.3		50	S3L40
600	2.2		1.5			S3L60

NEW

2.5/3 Amp

Manufacturer: Shindengen

Package: ITO220

V_{RM} (V)	I_{FAV} (A) at T_C (°C)	I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
200	2.5	45	0.98	10	35	D3L20U
600	3	60	1.65		50	D3L60

3 Amp

Manufacturer: Invac

Package: DO201AD

V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	t _{rr} (ns)	Device & Anglia Order Code	
50	3	55	150	1	3	5	50	UF5400	
100								UF5401	
200								UF5402	
400								UF5404	
600				1.7			75	UF5406	
800								UF5407	
1000								UF5408	

SHINDENGEN



ITO220



MTO3P



ITO3P

ULTRA-FAST RECOVERY continued**NEW****5 Amp, Dual**

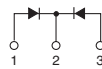
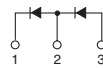
Manufacturer: Shindengen

Package: ITO220

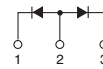
V_{RM} (V)	I_{FAV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 2.5A†	I_R (μA) at V_{RM} †	t_{rr} (ns)	Device & Anglia Order Code
200	5	132	45	0.98	10	35	D5LC20U
400		125	50	1.3		50	D5LD20U D5LC40

* Total for both diodes

† Rating per diode

D5L Circuit DiagramsD5LC20U
D5LC40

D5LD20U



D5LD20UR

NEW**8 Amp, Dual**

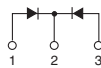
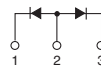
Manufacturer: Shindengen

Package: ITO220

V_{RM} (V)	I_{FAV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 4A†	I_R (μA) at V_{RM} †	t_{rr} (ns)	Device & Anglia Order Code
200	8	122	60	0.98	10	35	D8LC20U
400		114		1.3		50	D8LC20UR D8LC40

* Total for both diodes

† Rating per diode

D8L Circuit DiagramsD8LC20U
D8LC40

D8LC20UR

NEW**10/15 Amp, Dual**

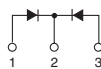
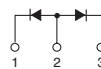
Manufacturer: Shindengen

Package: ITO220

V_{RM} (V)	I_{FAV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at I_{FAV} (A)*		I_R (μA) at V_{RM} †	t_{rr} (ns)	Device & Anglia Order Code
200	10	114	80	0.98	5	10	35	D10LC20U
	15	104	110		7.5			D10LC20UR
400	10	100	80	1.3	5		50	D15LC20U D10LC40

* Total for both diodes

† Rating per diode

D10/15L Circuit DiagramsD10LC20U
D15LC20U
D10LC40

D10LC20UR

NEW**16/30 Amp**

Manufacturer: Shindengen

Package: MTO3P

V_{RM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_{FAV}	I_R (μA) at V_{RM}	t_{rr} (ns)	Device & Anglia Order Code
600	16	122	300	1.5	25	100	S16L60
	30	117	600			150	S30L60

NEW**20 Amp, Dual**

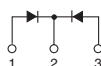
Manufacturer: Shindengen

Package: ITO3P

V_{RM} (V)	I_{FAV} (A)* at T_C (°C)		I_{FSM} (A)	V_F (V) at 10A†	I_R (μA) at V_{RM} †	t_{rr} (ns)	Device & Anglia Order Code
200	20	112	150	0.98	10	35	D20LC20U
400		102	120	1.3		50	D20LC40

* Total for both diodes

† Rating per diode

D20L Circuit Diagram



MBS
1Z
DFS
1N

NEW

0.5 Amp, Glass Passivated

Manufacturer: GS

Package: MBS

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	Device & Anglia Order Code
200	0.5	35	1	0.4	5
400					MB2S
600					MB4S
					MB6S

NEW

0.8 Amp

Manufacturer: Shindengen

Package: 1Z

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RM}	Device & Anglia Order Code
200	0.8	30	1.05	0.4	10
600					S1ZB20
800					S1ZB60
					S1ZB80

NEW

1 Amp, Glass Passivated

Manufacturer: GS

Package: DFS

V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	1	50	1.1	1	5
100					DF005S
200					DF01S
400					DF02S
600					DF04S
800					DF06S
1000					DF08S
					DF10S

NEW

1 Amp

Manufacturer: Shindengen

Package: 1N

V_{RM} (V)	I_{FAV} (A) at T_{amb} (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RM}	Device & Anglia Order Code
200	1	30	1.05	0.5	10
600					S1NB20
800					S1NB60
					S1NB80



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DF-M
DIL



Round



2S

NEW

1 Amp, Miniature, Glass Passivated					Manufacturer: GS		Package: DF-M	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code	
50	1	40	50	1.1	1	5	DF005M	
100							DF01M	
200							DF02M	
400							DF04M	
600							DF06M	
800							DF08M	
1000							DF10M	

1 Amp, Glass Passivated					Manufacturer: Invac		Package: DIL	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code	
50	1	40	30	1.1	1	5	DI100	
100							DI101	
200							DI102	
400							DI104	
600							DI106	
800							DI108	
1000							DI1010	

NEW

1.5 Amp, Glass Passivated					Manufacturer: Invac		Package: DIL	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code	
50	1.5	40	50	1.1	1	5	DI150	
100							DI151	
200							DI152	
400							DI154	
600							DI156	
800							DI158	
1000							DI1510	

1.5 Amp, 5.1mm Profile					Manufacturer: Invac		Package: Round	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code	
50	1.5	25	40	1	1	10	W005	
100							W01	
200							W02	
400							W04	
600							W06	
800							W08	
1000							W10	

NEW

1.5 Amp, 5.1mm Profile, Glass Passivated					Manufacturer: GS		Package: Round	
V _{RRM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Device & Anglia Order Code	
50	1.5	25	50	1	1	5	W005G	
100							W01G	
200							W02G	
400							W04G	
600							W06G	
800							W08G	
1000							W10G	

NEW

1.5 Amp, In-Line					Manufacturer: Shindengen		Package: 2S	
V _{RM} (V)	I _{FAV} (A) at T _{amb} (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RM}	Device & Anglia Order Code	
200	1.5	25	60	1.05	0.75	10	D2SBA20	
600							D2SBA60	

Bridge Rectifiers continued overleaf > > >



In-Line
3S

Square

NEW

2 Amp, Miniature Moulded Body						Manufacturer: Invac	Package: In-Line
V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	2	50	50	1	1	10	2KBP005
100							2KBP01
200							2KBP02
400							2KBP04
600							2KBP06
800							2KBP08
1000							2KBP10

3 Amp						Manufacturer: Invac	Package: Square
V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	3	50	50	1.2	1.5	10	KBPC1005
100							KBPC101
200							KBPC102
300							KBPC103
400							KBPC104
600							KBPC106
800							KBPC108
1000							KBPC110

4 Amp, In-Line, Mounting Hole			Manufacturer: GS/Invac				Package: In-Line	
V _{RRM} (V)	I _{FAV} (A) at T _C (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Manufacturer	Device & Anglia Order Code
50	4	100	200	1	4	5	GS	KBU4A
			150		2	10	Invac	
100			200		4	5	GS	KBU4B
			150		2	10	Invac	
200			200		4	5	GS	KBU4D
			150		2	10	Invac	
400			200		4	5	GS	KBU4G
			150		2	10	Invac	
600			200		4	5	GS	KBU4J
			150		2	10	Invac	
800			200		4	5	GS	KBU4K
			150		2	10	Invac	
1000			200		4	5	GS	KBU4M
			150		2	10	Invac	

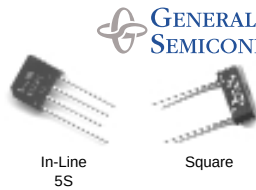
STATE MANUFACTURER WHEN ORDERING

4 Amp, In-Line						Manufacturer: Invac	Package: In-Line
V_{RRM} (V)	I_{FAV} (A) at T_{amb} (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	4	50	200	1	3	10	KBL005
100							KBL01
200							KBL02
400							KBL04
600							KBL06
800							KBL08
1000							KBL10

NEW

4 Amp, In-Line		Manufacturer: Shindengen					Package: 3S	
V _{RM} (V)	I _{FAV} (A) at T _C (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RM}	Device & Anglia Order Code	
200	4	108	80	1.05	2	10	D3SBA20	
600		111	150	0.95			D3SBA60	
							D4SB60L	





GENERAL SEMICONDUCTOR

Invac

SHINDENGEN

NEW

4 Amp, In-Line, Glass Passivated						Manufacturer: GS		Package: In-Line	
V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}		Device & Anglia Order Code	
50	4	100	150	1	4	5		GBU4A	
100								GBU4B	
200								GBU4D	
400								GBU4G	
600								GBU4J	
800								GBU4K	
1000								GBU4M	

6 Amp, In-Line, Mounting Hole			Manufacturer: GS/Invac				Package: In-Line	
V _{RRM} (V)	I _{FAV} (A) at T _C (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Manufacturer	Device & Anglia Order Code
50	6	100	250	1	6	5	GS	KBU6A
			200		3	10	Invac	
100			250		6	5	GS	KBU6B
200			3		10	Invac		
200			250		6	5	GS	KBU6D
			200		3	10	Invac	
400			250		6	5	GS	KBU6G
			200		3	10	Invac	
600			250		6	5	GS	KBU6J
			200		3	10	Invac	
800			250		6	5	GS	KBU6K
			200		3	10	Invac	
1000			250		6	5	GS	KBU6M
			200		3	10	Invac	

STATE MANUFACTURER WHEN ORDERING

NEW

6 Amp, In-Line						Manufacturer: Shindengen		Package: 5S	
V_{RM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RM}		Device & Anglia Order Code	
200	6	110	120	1.05	3	10		D5SBA20	
600								D5SBA60	

6 Amp						Manufacturer: Invac		Package: Square	
V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}		Device & Anglia Order Code	
50	6	50	125	1.1	3	10		KBPC6005	
100								KBPC601	
200								KBPC602	
400								KBPC604	
600								KBPC606	
800								KBPC608	
1000								KBPC610	

8 Amp, In-Line, Mounting Hole			Manufacturer: GS/Invac				Package: In-Line	
V _{RRM} (V)	I _{FAV} (A) at T _C (°C)		I _{FSM} (A)	V _F (V) at I _F (A)		I _R (μA) at V _{RRM}	Manufacturer	Device & Anglia Order Code
50	8	100	300	1	8	10	GS	KBU8A
			250		4		Invac	
100			300		8		GS	KBU8B
			250		4		Invac	
200			300		8		GS	KBU8D
			250		4		Invac	
400			300		8		GS	KBU8G
			250		4		Invac	
600			300		8		GS	KBU8J
			250		4		Invac	
800			300		8		GS	KBU8K
			250		4		Invac	
1000			300		8		GS	KBU8M
			250		4		Invac	

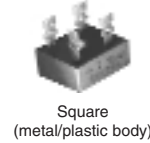
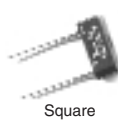
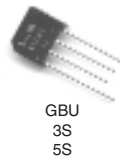
STATE MANUFACTURER WHEN ORDERING

Bridge Rectifiers continued overleaf > > >





SHINDENGEN



NEW

8 Amp, In-Line, Glass Passivated, Mounting Hole

Manufacturer: GS

Package: GBU

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	8	100	1	5	GBU8A
100					GBU8B
200					GBU8D
400					GBU8G
600					GBU8J
800					GBU8K
1000					GBU8M

8 Amp

Manufacturer: Invac

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	8	125	1.1	10	KBPC8005
100					KBPC801
200					KBPC802
400					KBPC804
600					KBPC806
800					KBPC808
1000					KBPC810

NEW

10 Amp, In-Line

Manufacturer: Shindengen

Package: 3S

V _{RM} (V)	I _{FAV} (A) at T _C (°C)		I _{FSM} (A)	V _F (V) at I _F (A)*	I _R (μA) at V _{RM} *	Device & Anglia Order Code	
40	10	67	100	0.55	5	3.5	D10SBS4
200		100	120	1.1		D10XB20	
		112	170	1.05		D10XB20H	
		100	120	1.1		D10XB60	
600		112	170	1.05		D10XB60H	
800		100	120	1.1		D10XB80	

* Rating per diode

NEW

15 Amp, In-Line

Manufacturer: Shindengen

Package: 5S

V _{RM} (V)	I _{FAV} (A) at T _C (°C)		I _{FSM} (A)	V _F (V) at I _F (A)*	I _R (μA) at V _{RM} *	Device & Anglia Order Code	
200	15	100	200	1.1	7.5	10	D15XB20
		107	240	1.05			D15XB20H
100		200	1.1	D15XB60			
107		240	1.05	D15XB60H			
800		100	200	1.1			D15XB80

* Rating per diode

15 Amp, Metal Body, Fast-On Tags

Manufacturer: Invac

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	15	300	1.2	7.5	KBPC15005
100					KBPC1501
200					KBPC1502
400					KBPC1504
600					KBPC1506
800					KBPC1508
1000					KBPC1510

NEW

15 Amp, Glass Passivated, Plastic Body

Manufacturer: GS

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)	I_{FSM} (A)	V_F (V) at I_F (A)	I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	15	300	1.1	5	GBPC15005
100					GBPC1501
200					GBPC1502
400					GBPC1504
600					GBPC1506
800					GBPC1508
1000					GBPC1510





5S



Square

NEW

20 Amp, In-Line

Manufacturer: Shindengen

Package: 5S

V_{RM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)*		I_R (μA) at V_{RM} *	Device & Anglia Order Code
200	20	87	240	1.1	10	10	D20XB20
600							D20XB60
800							D20XB80

* Rating per diode

NEW

25 Amp, In-Line

Manufacturer: Shindengen

Package: 5S

V_{RM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RM}	Device & Anglia Order Code
200	25	98	350	1.05	12.5	10	D25XB20
600							D25XB60
800							D25XB80

25 Amp, Metal Body, Fast-On Tags

Manufacturer: Invac

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	25	55	300	1.2	12.5	10	KBPC25005
100							KBPC2501
200							KBPC2502
400							KBPC2504
600							KBPC2506
800							KBPC2508
1000							KBPC2510

NEW

25 Amp, Glass Passivated, Plastic Body

Manufacturer: GS

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	25	55	300	1.1	12.5	5	GBPC25005
100							GBPC2501W
200							GBPC2502W
400							GBPC2504W
600							GBPC2506W
800							GBPC2508W
1000							GBPC2510W

35 Amp, Metal Body, Fast-On Tags

Manufacturer: Invac

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	35	55	400	1.2	17.5	10	KBPC35005
100							KBPC3501
200							KBPC3502
400							KBPC3504
600							KBPC3506
800							KBPC3508
1000							KBPC3510

NEW

35 Amp, Glass Passivated, Plastic Body

Manufacturer: GS

Package: Square

V_{RRM} (V)	I_{FAV} (A) at T_C (°C)		I_{FSM} (A)	V_F (V) at I_F (A)		I_R (μA) at V_{RRM}	Device & Anglia Order Code
50	35	55	400	1.1	17.5	5	GBPC35005
100							GBPC3501W
200							GBPC3502W
400							GBPC3504W
600							GBPC3506W
800							GBPC3508W
1000							GBPC3510W



TO220



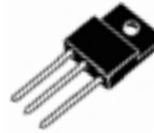
TO92



DPAK



TO202-2



TOP3I
isolated



SOT223



TO126

STANDARD

T_J (max.) = 110°C

$I_{T(RMS)}$ @ T_C		V_{RRM}	Device No. & Anglia Order Code	I_{TSM}	$T_J = 25^{\circ}C$					$\frac{dv}{dt}$ T_J max.	$\frac{di}{dt}$	Package
(A)	($^{\circ}C$)	(V)			V_{GT} max. (V)	I_{GT} max. (mA)	I_H max. (mA)	V_{TM} @ I_{TM} (V) (A)	min. (V/ μs)	max. (A/ μs)		
4	85	400* 600*	TIC206D TIC206M	25	2**	5mA [†]	15	1.3	4.2	50 typ.	–	TO220
6	70	400* 600*	TIC216D TIC216M	60	2.2**	5mA [†]	30	1.7 max.	8.4	50 typ.	–	
8	85	400* 600*	TIC226D TIC226M	70	2**	50mA [†]	30	1.6	12	100 typ.	–	
16	70	400* 600*	TIC246D TIC246M	125	2**	50mA [†]	40	1.4	22.5	1.2	200 typ.	
	95	400 600	TYN416 TYN616	160	1.5	25	40	1.6	32	500	100	
25	95	400 600 800	TYN425 TYN625 TYN825	250	1.5	40	50	1.6	50	500	100	TOP3I isolated
50	70	200	BTW69-200	500	1.5	80	150	1.9	100	500	100	
		600	BTW69-600							500		
		800	BTW69-800							500		
		1000 1200	BTW69-1000 BTW69-1200							250 250		

* V_{DRM}

** V_{GTM}

† I_{GTM}



SENSITIVE GATE

T_J (max.) = 125°C

$I_{T(RMS)}$ @ T_C		V_{RRM}	Device No. & <i>Anglia</i> Order Code		I_{TSM}	$T_J = 25^{\circ}C$						dv/dt T_J max.	di/dt	Package
(A)	($^{\circ}C$)	(V)	Stick	Tape & Reel	(A)	V_{GT} max. (V)	min. (μA)	I_{GT} max. (μA)	I_H max. (mA)	V_{TM} @ I_{TM} (V) (A)	min. (V/ μs)	max. (A/ μs)		
1.4	90(T_{TAB})	600 800	— —	X0202MN X0202NN	22.5	0.8	—	200	5	1.5 2.8	15 (typ.)	30	SOT223	
4	90	400 600	TS420-400B TS420-600B	— —	30	0.8	—	200	5	1.8 8	5	50	DPAK	

SENSITIVE GATE

T_J (max.) = 125°C

$I_{T(RMS)}$ @ T_C		V_{RRM}	Device No. & <i>Anglia</i> Order Code	I_{TSM}	$T_J = 25^{\circ}C$						dv/dt T_J max.	di/dt	Package
(A)	($^{\circ}C$)	(V)		(A)	V_{GT} max. (V)	I_{GT} min. (μA)	max. (μA)	I_H max. (mA)	V_{TM} @ I_{TM} (V) (A)	min. (V/ μs)	max. (A/ μs)		
0.8	80	30 60 100 200	2N5060 2N5061 2N5062 2N5064	10	0.8	—	200	5	1.7 max.	1.2	30 typ.	—	TO92
	55(T_L)	100 200 400	P0102AA P0102BA P0102DA	7	0.8	—	200	5	1.93	1.6	25	30	
1.25	60 (T_L)	400 600 800	X0205DA X0205MA X0205NA	22.5	0.8	20	50	5	1.45	2.5	15 (typ.)	30	
		400 600 800	X0203DA X0203MA X0203NA	22.5	0.8	20	200	5	1.45	2.5	20 (typ.)	30	
2	85	400 600	TICP106D TICP106M	15	1	—	200	5	1.5	1	—	—	
4	80	400 600	C106D1 C106M1	20	0.8	—	200	3	2.2	4	8 typ.	—	TO126
4	90	400 600 800	X0403DF X0403MF X0403NF	30	0.8	20	200	5	1.8	8	20 (typ.)	50	TO202-2
		400 600 800	X0402DF X0402MF X0402NF	30	0.8	—	200	5	1.8	8	15 (typ.)	50	
5	80	400 600	TIC106D TIC106M	30	1.2	—	200	5	1.7	5	10 typ.	—	TO220

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION





TO220

HIGH CURRENT

T_J (max.) = 125°C

$I_{T(RMS)}$ @ T_C (A)	T_C (°C)	V_{RRM} (V)	Device No. & Anglia Order Code	I_{TSM} max. (A)	$T_J = 25^\circ C$					dv/dt T_J max. (typ.)	Package
					V_{GT} max. (V)	I_{GT} max. (mA)	I_H max. (mA)	V_{TM} @ I_{TM} typ. (V)	I_{TM} typ. (A)		
8	80	400 600	TIC116D TIC116M	80	2.5	20	70	1.7	8	100	TO220
12	80	400 600	TIC126D TIC126M	100	2.5	20	70	1.4	12	100	



THYRISTORS, Diacs

SEMICONDUCTORS

SURFACE MOUNT



Mini MELF

T_J (max.) = 125°C

Breakover Voltage (V)			Device No. & Anglia Order Code	Breakover Voltage Symmetry dV max. (V)	Breakover Current I_{BO} max. (μA)	dV between 0 and 10mA min. (V)	Package
min.	nom.	max.					
28	32	36	TMMDB3	±3	100	5	Mini MELF
30	32	34	TMMDB3TG	±2	15	5	

AXIAL LEAD



DO35



DO41
DO41 mod

T_J (max.) = 125°C

Breakover Voltage (V)			Device No. & Anglia Order Code	Breakover Voltage Symmetry dV max. (V)	Breakover Current I_{BO} max. (μA)	dV between 0 and 10mA min. (V)	Package
min.	nom.	max.					
28	32	36	DB3	±3	100	5	DO35
			DB3A	±3	100	5	DO41
			DB3AS	±3	100	5	DO41 mod
30	32	34	DB3TG	±2	15	5	DO35
35	40	45	DB4	±3	100	5	

Triacs shown overleaf > > >



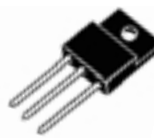
TO92



TO202-2



TO220
TO220 isolated



TOP3I isolated



RD91 isolated

STANDARD

$T_J (\text{max.}) = 125^\circ\text{C}$

I _{T(RMS)} @ T _C		V _{RRM}	Device No. & Anglia Order Code	I _{TSM}	I _{GT}				I _H	V _{TM} @ I _{TM}		(dv/dt) _c @ T _J max.	dv/dt @ T _J max.	Package			
					I ++	II +-	III --	IV -+		max. (mA)	V				A		
					max. (mA)												
(A)	(°C)	(V)		(A)					(mA)	(V)	(A)	min. (V/μs)	min. (V/μs)				
0.8	70 (T _L)	400 600	Z0110DA Z0110MA	8	25	25	25	25	25	1.5	1.1	5	100	TO92			
4	75	400 600	Z0410DF Z0410MF	20	25	25	25	25	25	2	5.5	5	200	TO202-2			
6	100	600	BTA06-600C	60	25	25	25	50	25	1.65	8.5	5	100	TO220 isolated			
		600 700	BTA06-600B BTA06-700B	60	50	50	50	100	50	1.65	8.5	10	250				
8	95	400 600	BTB08-400C BTB08-600C	80	25	25	25	50	25	1.75	11	5	100	TO220			
		400 600	BTB08-400B BTB08-600B	80	50	50	50	100	50	1.75	11	10	250				
	90	400 600 800	BTA08-400C BTA08-600C BTA08-800C	80	25	25	25	50	25	1.75	11	5	100	TO220 isolated			
		400 600 700	BTA08-400B BTA08-600B BTA08-700B	80	50	50	50	100	50	1.75	11	10	250				
		12	95	400 600 800	BTB12-400B BTB12-600B BTB12-800B	120	50	50	50	100	50	1.5	17		10	250	TO220
				600	BTA12-600C	120	25	25	25	50	25	1.5	17		5	100	
90	400 600 800	BTA12-400B BTA12-600B BTA12-800B	120	50	50	50	100	50	1.5	17	10	250					
	16	90	800	BTB16-800C	160	25	25	25	50	25	1.6	22.5	5	100	TO220		
400 600 800			BTB16-400B BTB16-600B BTB16-800B	160	50	50	50	100	50	1.6	22.5	10	250				
80		400 600 800	BTA16-400B BTA16-600B BTA16-800B	160	50	50	50	100	50	1.6	22.5	10	250	TO220 isolated			
25	80	400 600 700 800	BTB24-400B BTB24-600B BTB24-700B BTB24-800B	200	50	50	50	100	50	1.8	35	10	250	TO220			
	90	400 600	BTA26-400B BTA26-600B	250	50	50	50	100	80	1.7	35	10	250	TOP3I isolated			
30	80	400 600	BTA25-400B BTA25-600B	250	50	50	50	100	80	1.8	42	10	250	RD91 isolated			
40	75	400 600 800	BTA41-400B BTA41-600B BTA41-800B	300	50	50	50	100	80	1.8	60	10	250	TOP3I isolated			
		400 600 700 800	BTA40-400B BTA40-600B BTA40-700B BTA40-800B	300	50	50	50	100	80	1.8	60	10	250	RD91 isolated			

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION



TO92



TO202-2



TO220
TO220 isolated



DPAK

LOGIC LEVEL

T_J (max.) = 125°C except BTA/B : 110°C

$I_{T(RMS)} @ T_C$		V_{RRM}	Device No. & <i>Anglia</i> Order Code	I_{TSM}	I_{GT}				I_H	I_L	$V_{TM} @ I_{TM}$		$\frac{dv}{dt}$ T_J max.	Package
(A)	(°C)	(V)		(A)	I ++	II +-	III --	IV -+			max. (mA)	typ. (mA)	(V)	
					max. (mA)									
0.8	70 (TL)	400 600 800	Z0103DA Z0103MA Z0103NA	8	3	3	3	5	7	7	1.5	1.1	10	TO92
		400 600 800	Z0107DA Z0107MA Z0107NA	8	5	5	5	7	10	10	1.5	1.1	20	
		400 600	Z0109DA Z0109MA	8	10	10	10	10	10	10	1.5	1.1	50	
4	75	400 600	Z0402DF Z0402MF	20	3	3	3	3	3	3	2	5.5	10	TO202-2
		400 600 800	Z0405DF Z0405MF Z0405NF	20	5	5	5	5	5	5	2	5.5	20	
		400 600 800	Z0409DF Z0409MF Z0409NF	20	10	10	10	10	10	10	2	5.5	100	
6	90	600	BTB06-600T	60	5	5	5	5	15	10	1.65	8.5	10 typ.	TO220
	85	600	BTA06-600T	60	5	5	5	5	15	10	1.65	8.5	10 typ.	TO220 isolated
		600	BTA06-600S	60	10	10	10	10	25	20	1.65	8.5	10	
8	80	600	BTB08-600S	80	10	10	10	10	25	20	1.75	11	10	TO220
	75	400	BTA08-400S	80	10	10	10	10	25	20	1.75	11	10	TO220 isolated
		600	BTA08-600A	80	10	10	10	25	25	20	1.75	11	10	

LOGIC LEVEL, SNUBBERLESS



T_J (max.) = 125°C

I _{T(RMS)} @ T _C	V _{RRM}	Device No. & Anglia Order Code	I _{TSM}	I _{GT}			I _H	V _{TM} @ I _{TM}	(di/dt) _c @ T _J max.	dv/dt @ T _J max.	Package		
				I ++	II +-	III --							
				(A)	(°C)	(V)	Stick	(A)	max. (mA)			max. (mA)	(V)
4	110	600 700 800	T410-600B T410-700B T410-800B	30	10	10	10	15	1.75	5.5	2.7	30	DPAK

LOGIC LEVEL, SNUBBERLESS

T_J (max.) = 110°C

$I_{T(RMS)}$ @ T_C		V_{RRM}	Device No. & <i>Anglia</i> Order Code	I_{TSM}	I_{GT}			I_H	V_{TM} @ I_{TM}		$(di/dt)c$ @ T_J max.	dv/dt @ T_J max.	Package
(A)	(°C)	(V)			I ++	II +-	III --		(V)	(A)	min. (A/ms)	min. (V/μs)	
					max. (mA)			max. (mA)					
4	110	600 700 800	<i>T410-600T</i> <i>T410-700T</i> <i>T410-800T</i>	30	10	10	10	15	1.75	5.5	2.7	50	TO220
6	80	600	<i>BTA06-600TW</i>	60	5	5	5	15	1.75	8.5	2.7	20	TO220 isolated
		600 700	<i>BTA06-600SW</i> <i>BTA06-700SW</i>	60	10	10	10	25	1.75	8.5	3.5	50	
8	75	600	<i>BTA08-600SW</i>	80	10	10	10	25	1.75	11	4.5	50	
12	70	600	<i>BTA12-600SW</i>	120	10	10	10	25	1.75	17	5.3	50	

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

Triacs continued overleaf > > >



SNUBBERLESS

T_J (max.) = 125°C

I _{T(RMS)} @ T _C (A)	V _{RRM} (V)	Device No. & Anglia Order Code	I _{TSM} (A)	I _{GT}			I _H max. (mA)	V _{TM} @ I _{TM} (V) (A)	(di/dt) _c @ T _J max. min. (A/ms)	dv/dt @ T _J max. min. (V/μs)	Package	
				I ++	II +-	III --						
				max. (mA)								
6	100	600 BTA06-600CW	60	35	35	35	35	1.75	8.5	3.5	250	TO220 isolated
		600 BTA06-600BW 700 BTA06-700BW	60	50	50	50	50	1.75	8.5	5	500	
8	90	600 BTA08-600BW	80	50	50	50	50	1.75	11	7	500	
10	90	600 BTA10-600BW 800 BTA10-800BW	100	50	50	50	50	1.65	14	9	500	
12	85	600 BTA12-600BW 800 BTA12-800BW	120	50	50	50	50	1.6	17	12	500	
16	90	800 BTB16-800CW	160	35	35	35	35	1.6	22.5	8.5	250	TO220
		400 BTB16-400BW 600 BTB16-600BW 800 BTB16-800BW	160	50	50	50	50	1.6	22.5	14	500	
	80	800 BTA16-800CW	160	35	35	35	35	1.6	22.5	8.5	250	TO220 isolated
		600 BTA16-600BW 800 BTA16-800BW	160	50	50	50	50	1.6	22.5	14	500	
20	90	600 BTB20-600CW	200	35	35	35	50	1.7	28	11	250	TO220
	70	600 BTA20-600CW 700 BTA20-700CW	200	35	35	35	50	1.7	28	11	250	TO220 isolated
25	85	600 BTA24-600BW 800 BTA24-800BW	250	50	50	50	75	1.8	35	22	500	
		400 BTA26-400BW 600 BTA26-600BW	250	50	50	50	75	1.8	35	26	500	



For the very latest information on the full range of ST products available from Anglia refer to our ST technical guide, available upon request.

Alternatively the guide may be viewed or downloaded from the Anglia website:

www.angliac.co.uk

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION



NPN	Device & Anglia Order Code	Marking	I _C max. (mA)	Power at 25°C (mW)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE}		I _C at V _{CE}		f _T typ. (MHz)	Complement
							min.	max.	I _C (mA)	V _{CE} (V)		
 SOT23	BCW60A	AA	100	250	32	32	120	220	2	5	250	BCW61A
	BCW60B	AB	100	250	32	32	180	310	2	5	250	BCW61B
	BCW60C	AC	100	250	32	32	250	460	2	5	250	BCW61C
	BCW60D	AD	100	250	32	32	380	630	2	5	250	BCW61D
	BCW71	K1	100	250	45	50	110	220	2	5	100(min.)	BCW69
	BCW72	K2	100	250	45	50	200	450	2	5	100(min.)	BCW70
	BC848A	1J	100	310	30	30	110	220	2	5	300	BC858A
	BC848B	1K	100	310	30	30	200	450	2	5	300	BC858B
	BC848C	1L	100	310	30	30	420	800	2	5	300	BC858C
	BC849B *	2B	100	310	30	30	200	450	2	5	300	BC859B
	BC849C *	2C	100	310	30	30	420	800	2	5	300	BC859C
	BC847A	1E	100	310	45	50	110	220	2	5	300	BC857A
	BC847B	1F	100	310	45	50	200	450	2	5	300	BC857B
	BC847C	1G	100	310	45	50	420	800	2	5	300	BC857C
	BC846A	1A	100	310	65	80	110	220	2	5	300	BC856A
	BC846B	1B	100	310	65	80	200	450	2	5	300	BC856B
	MMBT3904	1AM	200	310	40	60	100	300	10	1	300	MMBT3906
	MBTA42	1D	500	250	300	300	40	-	10	10	50	MBTA92
	MMBT2222A	1P	600	225	40	75	40	-	500	10	300	MMBT2907A
	BC817-16	6A	800	310	45	50	100	250	100	1	100	BC807-16
	BC817-25	6B	800	310	45	50	160	400	100	1	100	BC807-25
	BC817-40	6C	800	310	45	50	250	600	100	1	100	BC807-40

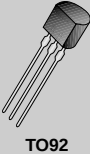
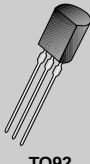
* Low noise type

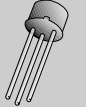
PNP	Device & Anglia Order Code	Marking	I _C max. (mA)	Power at 25°C (mW)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE}		I _C at V _{CE}		f _T typ. (MHz)	Complement
							min.	max.	I _C (mA)	V _{CE} (V)		
 SOT23	BCW61A	BA	100	250	32	32	120	220	2	5	250	BCW60A
	BCW61B	BB	100	250	32	32	180	310	2	5	250	BCW60B
	BCW61C	BC	100	250	32	32	250	460	2	5	250	BCW60C
	BCW61D	BD	100	250	32	32	380	630	2	5	250	BCW60D
	BCW69	H1	100	250	45	50	120	260	2	5	100(min.)	BCW71
	BCW70	H2	100	250	45	50	215	500	2	5	100(min.)	BCW72
	BC858A	3J	100	310	30	30	110	220	2	5	300	BC848A
	BC858B	3K	100	310	30	30	200	450	2	5	300	BC848B
	BC858C	3L	100	310	30	30	420	800	2	5	300	BC848C
	BC859B *	4B	100	310	30	30	200	450	2	5	300	BC849B
	BC859C *	4C	100	310	30	30	420	800	2	5	300	BC849C
	BC857A	3E	100	310	45	50	110	220	2	5	300	BC847A
	BC857B	3F	100	310	45	50	200	450	2	5	300	BC847B
	BC857C	3G	100	310	45	50	420	800	2	5	300	BC847C
	BC856A	3A	100	310	65	80	110	220	2	5	300	BC846A
	BC856B	3B	100	310	65	80	200	450	2	5	300	BC846B
	MMBT3906	2A	200	310	40	40	100	300	10	1	250	MMBT3904
	MBTA92	2D	500	250	300	300	40	-	10	10	50	MBTA42
	MMBT2907A	2F	600	225	60	60	50	-	500	10	200	MMBT2222A
	BC807-16	5A	500	310	45	50	100	250	100	1	100	BC817-16
	BC807-25	5B	500	310	45	50	160	400	100	1	100	BC817-25
	BC807-40	5C	500	310	45	50	250	600	100	1	100	BC817-40

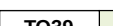
* Low noise type

Through Hole Small Signal Transistors shown overleaf > > >

NPN

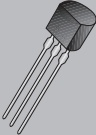
TO92	Device & Anglia Order Code	Package	Pin-out	I _C max. (mA)	Power at 25°C (mW)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE}		at		f _T typ. (MHz)	Complement
								min.	max.	I _C (mA)	V _{CE} (V)		
	BF420	TO92	21	50	830	300	300	-	40	25	20	100	BF421
	BF422	TO92	21	50	830	250	250	-	50	25	20	100	BF423
	BC182L	TO92	21	100	350	50	60	40	-	0.01	5	200	-
	BC182LB	TO92	21	100	350	50	60	40	-	0.01	5	200	-
	BC184L	TO92	21	100	350	30	45	100	-	0.01	5	280	-
	BC184LB	TO92	21	100	350	30	45	100	-	0.01	5	280	-
	BC546A	TO92	21A	100	500	65	80	110	220	2	5	300	BC556A
	BC546B	TO92	21A	100	500	65	80	200	450	2	5	300	BC556B
	BC546BT	TO92(taped)	21A	100	500	65	80	200	450	2	5	300	BC556BT
	BC546C	TO92	21A	100	500	65	80	420	800	2	5	300	BC556C
	BC547A	TO92	21A	100	500	45	50	110	220	2	5	300	BC557A
	BC547B	TO92	21A	100	500	45	50	200	450	2	5	300	BC557B
	BC547BT	TO92(taped)	21A	100	500	45	50	200	450	2	5	300	BC557BT
	BC547C	TO92	21A	100	500	45	50	420	800	2	5	300	BC557C
	BC547CT	TO92(taped)	21A	100	500	45	50	420	800	2	5	300	BC557C
	BC548A	TO92	21A	100	500	30	30	110	220	2	5	300	BC558A
	BC548B	TO92	21A	100	500	30	30	200	450	2	5	300	BC558B
	BC548BT	TO92(taped)	21A	100	500	30	30	200	450	2	5	300	BC558BT
	BC548C	TO92	21A	100	500	30	30	420	800	2	5	300	BC558C
	BC549B	TO92	21A	100	500	30	30	200	450	2	5	300	BC559B
	BC549BT	TO92(taped)	21A	100	500	30	30	200	450	2	5	300	BC559BT
	BC549C	TO92	21A	100	500	30	30	420	800	2	5	300	BC559C
	BC550B	TO92	21A	100	500	45	50	200	450	2	5	300	BC560B
	BC550BT	TO92(taped)	21A	100	500	45	50	200	450	2	5	300	BC560B
	BC550C	TO92	21A	100	500	45	50	420	800	2	5	300	BC560C
	2N3904	TO92	21E	200	500	40	60	100	300	1	10	300(min)	2N3906
	2N4124	TO92	21E	200	625	25	30	120	360	2	1	200	2N4126
	2N4401	TO92	21E	600	625	40	60	100	300	150	1	250	2N4403
	2N5550	TO92	21E	600	625	140	160	60	250	10	5	300	2N5400
	2N5551	TO92	21E	600	625	160	180	80	250	10	5	300	2N5401
MPSA06	TO92	21E	500	625	80	80	-	50	100	1	-	MPSA56	
MPSA13	TO92	21E	500	625	30	30	-	5000	10	5	500	-	
MPSA14	TO92	21E	500	625	30	30	-	1000	10	5	125(min)	-	
MPSA42	TO92	21E	500	625	300	300	-	40	30	10	50	MPSA92	
BC237B	TO92	21A	100	350	45	50	200	460	2	5	200	-	
BC337	TO92	21A	500	625	45	50	100	600	100	1	100	BC327	
BC337T	TO92(taped)	21A	500	625	45	50	100	600	100	1	100	BC327T	
BC337-16	TO92	21A	800	625	45	50	100	250	100	1	100	BC327-16	
BC337-25	TO92	21A	800	625	45	50	160	400	100	1	100	BC327-25	
BC337-40	TO92	21A	800	625	45	50	250	630	100	1	100	BC327-40	
BC338-16	TO92	21A	800	625	25	30	100	250	100	1	100	BC328-16	
BC338-25	TO92	21A	800	625	25	30	160	400	100	1	100	BC328-25	
BC338-40	TO92	21A	800	625	25	30	250	630	100	1	100	BC328-40	
2SC2500	TO92mod	21	2000	900	10	30	140	600	500	1	150	-	
2SC2655	TO92mod	21	2000	900	50	50	70	240	500	2	100	-	

TO18	Device & Anglia Order Code	I _C max. (mA)	Power at 25°C (mW)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE}		at		f _T typ. (MHz)	Complement
						min.	max.	I _C (mA)	V _{CE} (V)		
	2N2222A	800	500	40	75	35	-	0.1	10	300	-
	2N2369A	200	360	15	40	40	120	10	1	500	-

TO39	Device & Anglia Order Code	I _C max. (mA)	Power at 25°C (mW)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE}		I _C at V _{CE} (V)		f _r typ. (MHz)	Complement
						min.	max.				
	2N3053	0.7	5	40	60	50	250	0.15	10	100	-
	BFX85	1	0.8	60	100	15	-	1	10	50	-
	BFY50	1	0.8	35	80	20	40	0.01	10	60	-
	BFY51	1	0.8	30	60	30	55	0.01	10	50	-

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

PNP

TO92	Device & Anglia Order Code	Package	Pin-out	I _C max. (mA)	Power at 25°C (mW)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE}		at		f _T typ. (MHz)	Complement
								min.	max.	I _C (mA)	V _{CE} (V)		
	BF421	TO92	21	50	830	300	300	40	-	25	20	80	BF420
	BF423	TO92	21	50	830	250	250	50	-	25	20	80	BF422
	BC212L	TO92	21	100	350	50	60	40	-	0.01	5	280	-
	BC556A	TO92	21A	100	500	65	80	110	220	2	5	150	BC546A
	BC556B	TO92	21A	100	500	65	80	200	450	2	5	150	BC546B
	BC556BT	TO92(taped)	21A	100	500	65	80	200	450	2	5	150	BC546BT
	BC556C	TO92	21A	100	500	65	80	420	800	2	5	150	BC546C
	BC557A	TO92	21A	100	500	45	50	110	220	2	5	150	BC547A
	BC557B	TO92	21A	100	500	45	50	200	450	2	5	150	BC547B
	BC557BT	TO92(taped)	21A	100	500	45	50	200	450	2	5	150	BC547BT
	BC557C	TO92	21A	100	500	45	50	420	800	2	5	150	BC547C
	BC558A	TO92	21A	100	500	30	30	110	220	2	5	150	BC548A
	BC558B	TO92	21A	100	500	30	30	200	450	2	5	150	BC548B
	BC558BT	TO92(taped)	21A	100	500	30	30	200	450	2	5	150	BC548BT
	BC559B	TO92	21A	100	500	25	30	200	450	2	5	150	BC549B
	BC559BT	TO92(taped)	21A	100	500	25	30	200	450	2	5	150	BC549BT
	2N3905	TO92	21E	200	625	40	40	50	150	1	10	200(min)	-
	2N3906	TO92	21E	200	500	40	40	100	300	1	10	250	2N3904
	2N4126	TO92	21E	200	625	25	25	120	360	2	1	200	2N4124
	2N4402	TO92	21E	600	625	40	40	50	-	1	10	150	-
	2N4403	TO92	21E	600	625	40	40	60	500	1	10	200	2N4401
	MPSA56	TO92	21E	500	225	80	80	100	-	100	1	50	MPSA06
	MPSA92	TO92	21E	500	625	300	300	25	-	30	10	50	MPSA42
	BC328T	TO92	21A	500	625	25	30	100	400	100	1	100	BC338
	BC327	TO92	21A	800	625	45	50	100	250	100	1	100	BC337
	BC327T	TO92(taped)	21A	800	625	45	50	100	250	100	1	100	BC337T
	BC327-16	TO92	21A	800	625	45	50	100	250	100	1	100	BC337-16
	BC327-25	TO92	21A	800	625	45	50	160	400	100	1	100	BC337-25
	BC327-40	TO92	21A	800	625	45	50	250	630	100	1	100	BC337-40

TO18	Device & Anglia Order Code	I _C max. (mA)	Power at 25°C (mW)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE}		at		f _T min. (MHz)	Complement
						min.	max.	I _C (mA)	V _{CE} (V)		
	2N2907A	600	400	60	60	100	-	1	10	200	-

Pin-out

No.	1	2	3
21	Emitter	Collector	Base
21A	Collector	Base	Emitter
21E	Emitter	Base	Collector

TO92	Device & Order Code	I _C max. (A)	Power at 25°C (W)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE} min.	h _{FE} max.	I _C (A) at V _{CE} (V)	f _T typ. (MHz)	Complement	
NPN	BC637	0.5	0.8	60	60	25	—	0.005	2	100	BC638
	BC639	0.5	0.8	80	80	25	—	0.005	2	100	BC640
	2N3704	0.6	0.625	30	50	100	300	0.05	2	100	2N3702
	2N3705	0.6	0.625	30	50	50	150	0.05	2	100	—
PNP	BC638	0.5	0.8	60	60	25	—	0.005	2	50	BC637
	BC640	0.5	0.8	80	80	25	—	0.005	2	50	BC639
	2N3702	0.6	0.625	25	40	60	300	0.05	5	100	2N3704
	BFR79	2	0.8	80	90	20	—	1	10	150	—



TO92

SOT32	Device & Order Code	I _C max. (A)	Power at 25°C (W)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE} min.	h _{FE} max.	I _C (A) at V _{CE} (V)	f _T typ. (MHz)	Complement	
NPN	BD135	1.5	12.5	45	45	40	250	0.15	2	—	BD136
	BD139	1.5	12.5	80	80	40	250	0.15	2	—	BD140
	BD433	4	36	22	22	50	—	2	1	3	BD434
	BD435	4	36	32	32	50	—	2	1	3	BD436
	BD437	4	36	45	45	40	—	2	1	3	BD438
PNP	BD136	1.5	12.5	45	45	40	250	0.15	2	—	BD135
	BD138	1.5	12.5	45	45	40	250	0.15	2	—	—
	BD140	1.5	12.5	60	60	40	250	0.15	2	—	BD139
	BD434	4	36	22	22	50	—	2	1	3	BD433
	BD436	4	36	32	32	50	—	2	1	3	BD435
	BD438	4	36	45	45	40	—	2	1	3	BD437



SOT32

TO220	Device & Order Code	I _C max. (A)	Power at 25°C (W)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE} min.	h _{FE} max.	I _C (A) at V _{CE} (V)	f _T typ. (MHz)	Complement	
NPN	TIP29A	1	30	60	60	15	75	1	4	—	TIP30A
	TIP29C	1	30	100	100	15	75	1	4	—	TIP30C
	TIP31A	3	40	60	60	10	50	3	4	3	TIP32A
	TIP31C	3	40	100	100	10	50	3	4	3	TIP32C
	TIP41A	6	65	60	60	15	75	3	4	3	TIP42A
	TIP41B	6	65	80	80	15	75	3	4	3	TIP42B
	TIP41C	6	65	100	100	15	75	3	4	3	TIP42C
	BD911	15	90	100	100	15	150	5	4	3	BD912
PNP	TIP30A	1	30	60	60	15	75	1	4	—	TIP29A
	TIP30C	1	30	100	100	15	75	1	4	—	TIP29C
	TIP32A	3	40	60	60	10	50	3	4	3	TIP31A
	TIP32B	3	40	80	80	25	50	1	4	3	—
	TIP32C	3	40	100	100	10	50	3	4	3	TIP31C
	TIP42A	6	65	60	60	15	75	3	4	3	TIP41A
	TIP42C	6	65	100	100	15	75	3	4	3	TIP41C
	BD912	15	90	100	100	15	150	5	4	3	BD911



TO220

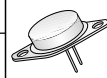
TO218	Device & Order Code	I _C max. (A)	Power at 25°C (W)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE} min.	h _{FE} max.	I _C (A) at V _{CE} (V)	f _T min. (MHz)	Complement	
NPN	BU508A *	8	125	700	—	—	—	—	7 typ.	—	
	TIP33C	10	80	100	140	20	100	3	4	3	TIP34C
	TIP3055	15	90	60	100	20	70	4	4	3	TIP2955
	TIP35C	25	125	100	100	25	—	1.5	4	3	TIP36C
PNP	TIP34C	10	80	100	140	20	100	3	4	3	TIP33C
	TIP2955	15	90	60	100	20	70	4	4	3	TIP3055
	TIP36C	25	125	100	100	25	—	1.5	4	3	TIP35C



TO218

* Horizontal deflection device for colour TV up to 25"

TO3	Device & Order Code	I _C max. (A)	Power at 25°C (W)	V _{CE0} max. (V)	V _{CBO} max. (V)	h _{FE} min.	h _{FE} max.	I _C (A) at V _{CE} (V)	f _T min. (MHz)	Complement	
NPN	2N3055	15	115	60	100	20	70	4	4	3	BC638



TO3

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION



SOT23	Device & Anglia Order Code	I _C max. (A)	Power at 25°C (W)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE} max.		I _C (A)	at V _{CE} (V)	f _T typ. (MHz)	Complement	 SOT23
NPN	MMBTA13 MMBTA14	0.3 0.3	0.225 0.225	30 30	30 30	5000 1000	– –	10 10	5 5	125 125	– –	

SOT32	Device & Anglia Order Code	I _C max. (A)	Power at 25°C (W)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE} max.		I _C (A)	at V _{CE} (V)	f _T typ. (MHz)	Complement	 SOT32
NPN	BD677 BD679 BD679A BD681	4 4 4 4	40 40 40 40	60 80 80 100	60 80 80 100	750 750 750 750	– – – –	1.5 1.5 2 1.5	3 3 3 3	– – – –	BD678 BD680 – –	
PNP	BD678 BD678A BD680	4 4 4	40 40 40	60 60 80	60 60 80	750 750 750	– – –	1.5 1.5 1.5	3 3 3	– – –	BD677 – BD679	

TO220	Device & Anglia Order Code	I _C max. (A)	Power at 25°C (W)	V _{CEO} max. (V)	V _{CBO} max. (V)	h _{FE} max.		I _C (A)	at V _{CE} (V)	f _T min. (MHz)	Complement	 TO220
NPN	TIP47 TIP48 TIP49 TIP50 TIP110 TIP112 TIP120 TIP121 TIP122 BU407 TIP132 BDW93C BUV26	1 1 1 1 2 2 5 5 5 7 8 12 14	40 40 40 40 50 50 65 65 65 60 70 80 85	250 300 350 400 60 100 60 80 100 150 100 80 90	350 400 450 500 60 100 60 80 100 330 100 80 180	10 10 10 10 1000 1000 1000 1000 1000 – 1000 750 –	150 150 150 150 – – – – – 15000 20000 –	1 1 1 1 2 1 3 3 3 1 4 5 12	10 10 10 10 4 4 3 3 3 5 3 1.5	10 10 10 10 – – – – – 10 typ. – – –	– – – – TIP115 TIP117 TIP125 TIP126 TIP127 – TIP137 BDW94C –	
PNP	TIP115 TIP117 TIP125 TIP126 TIP127 TIP135 TIP137 TIP107 BDW94C	2 2 5 5 5 8 8 8 12	50 50 65 65 65 70 70 80 80	60 100 60 80 100 60 100 100 80	60 100 60 80 100 60 100 100 80	1000 1000 1000 1000 1000 1000 1000 1000 750	– – – – – 15000 15000 20000 20000	2 1 3 3 3 4 4 3 5	4 4 3 3 3 4 4 4 3	– – – – – – – – –	TIP110 TIP112 TIP120 TIP121 TIP122 – TIP132 – BDW93C	

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

Through Hole Switching & Darlington Transistors shown overleaf > > >

E-line	Device & Anglia Order Code	I_C max. (A)	Power at 25°C (W)	V_{CEO} max. (V)	V_{CBO} max. (V)	h_{FE} min.	h_{FE} max.	I_C (A) at V_{CE} (V)	f_T typ. (MHz)	Complement	
NPN	ZTX300	0.5	0.3	25	25	50	—	0.01	6	150	ZTX500
	ZTX450	1	1	45	60	100	—	0.15	150	50	ZTX550
	ZTX651	2	1	60	80	100	—	0.5	140	100	ZTX751
	ZTX653	2	1	100	120	100	—	0.5	140	100	ZTX753
	ZTX688B	3	1	12	12	400	—	3	150	50	—
	ZTX600B	1	1	140	160	10K	—	0.5	150	100	—
	ZTX603	1	1	80	100	5K	—	0.5	150	100	—
	ZTX605	1	1	120	140	5K	—	0.5	150	100	—
PNP	ZTX500	0.5	0.3	25	25	50	—	0.01	6	150	ZTX300
	ZTX550	1	1	45	60	100	—	0.15	10	150	ZTX450
	ZTX751	2	1	60	80	100	—	0.5	2	140	ZTX651
	ZTX753	2	1	100	120	100	—	0.5	2	140	ZTX653



E-line

TO39	Device & Anglia Order Code	I_C max. (A)	Power at 25°C (W)	V_{CEO} max. (V)	V_{CBO} max. (V)	h_{FE} min.	h_{FE} max.	I_C (mA) at V_{CE} (V)	f_T min. (MHz)	Complement	
NPN	2N3440	1	10	250	300	40	160	20	10	15	—



TO39

TO218	Device & Anglia Order Code	I_C max. (A)	Power at 25°C (W)	V_{CEO} max. (V)	V_{CBO} max. (V)	h_{FE} min.	h_{FE} max.	I_C (A) at V_{CE} (V)	f_T min. (MHz)	Complement	
NPN	TIP141	10	125	80	80	1000	—	5	4	—	—
	TIP142	10	124	100	100	1000	—	5	4	—	TIP147
	BUV48A	15	125	450	1000	—	—	10	1.5	—	—
	BUW49	30	150	80	160	—	—	30	1.2	—	—
PNP	TIP147	10	124	100	100	1000	—	5	4	—	TIP142



TO218



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STANDARD



	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	P _{tot} (W)	Device No. & Anglia Order Code	
N Channel	55	0.0065	80	210	STB80NF55-06	 D ² PAK
	60	0.01	80	150	STB80NE06-10	
		0.016	60	150	STB60NE06-16	
		0.022	55	130	STB55NE06	
	75	0.013	75	160	STB75NE75	
	80	0.024	50	150	STB50NE08	
	100	0.027	50	150	STB50NE10	
	200	0.18	19	125	STB19NB20	
	400	0.55	10.7	125	STB11NB40	
		0.99	7	100	STB7NB40	
	500	0.85	8.6	125	STB9NB50	
		1.5	5.8	100	STB6NB50	
	600	2	5	100	STB5NB60	
		3.6	3.3	80	STB3NB60	
	800	3.3	4	100	STB4NB80	



	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	P _{tot} (W)	Device No. & Anglia Order Code	
N Channel	60	0.030	30	50	STD30NE06	 DPAK
		0.05	19	45	STD19NE06	
		0.085	16	45	STD16NE06	
		0.12	12	35	STD12NE06	
	100	0.1	16	55	STD16NE10	
	200	0.4	7	55	STD7NB20	
	250	1	4	45	STD4NB25	
	300	0.9	5	55	STD5NB30	
		1.6	1.6	45	STD3NB30	
	400	1.8	3.7	50	STD4NB40	
	500	2.8	3	50	STD3NB50	
	600	3.6	2.6	50	STD2NB60	
		8.5	1	45	STD1NB60	



	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	P _{tot} (W)	Device No. & Anglia Order Code	
N Channel	30	0.06	4	2.5	STN4NE03	 SOT223
	60	0.12	3	2.5	STN3NE06	
		0.25	2	2.5	STN2NE06	
	100	0.4	2	2.5	STN2NE10	
	800	20	0.2	2.9	STN1NB80	



	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	P _{tot} (W)	Device No. & Anglia Order Code	
N Channel	60	7.5	0.12	0.2	2N7002	 SOT23

Surface Mount Power MOSFETS, Logic Level
shown overleaf > > >

LOGIC LEVEL



	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Device No. & Anglia Order Code	
N Channel	30	0.013	45	55	STD45NF03L	 DPAK
		0.025	30	40	STD30NF03L	
	60	0.03	30	50	STD30NE06L	
		0.085	16	45	STD16NE06L	
		0.12	12	35	STD12NE06L	



	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Device No. & Anglia Order Code	
N Channel	30	0.06	4	2.5	STN4NE03L	 SOT223
	60	0.12	3	2.5	STN3NE06L	
	100	0.4	2	2.5	STN2NE10L	



	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Device No. & Anglia Order Code	
N Channel	30	0.01	12	2.5	STS12NF30L	 SO8
		0.025	7	2.5	STS7NF30L	
		2 x 0.065	3.5*	1.6*	STS3DNF30L	
	60	2 x 0.08	3*	1.6	STS3DNE60L	
		0.055	5	2.5	STS5NF60L	
		2 x 0.055	4*	1.6*	STS4DNF60L	

* Single circuit operation



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STANDARD
**N
Channel**

V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Package	Device No. & Anglia Order Code
50	0.04	36	120	TO220	BUZ11
	0.055	27	90		BUZ11A
	0.1	18	80		BUZ71
	0.12	16	70		BUZ71A
60	0.01	80	150	TO220	STP80NE06-10
	0.016	60	150	TO220	STP60NE06-16
	0.022	30	35	TO220FP	STP55NE06FP
	0.022	55	130	TO220	STP55NE06
	0.028	45	110	TO220	STP45NE06
	0.04	20	35	TO220FP	STP36NE06FP
	0.04	36	100	TO220	STP36NE06
	0.050	30	90	TO220	STP30NE06
	0.085	20	65	TO220	STP20NE06
	0.12	11	30	TO220FP	STP16NE06FP
75	0.12	16	60	TO220	STP16NE06
	0.013	75	160	TO220	STP75NE75
100	0.022	30	50	TO220FP	STP60NE10FP
	0.022	60	160	TO220	STP60NE10
	0.077	30	150	TO220	IRF540
	0.1	20	85	TO220	STP20NE10
	0.16	16	90	TO220	IRF530
	0.25	11	70	TO220	BUZ72A
	0.27	10	70	TO220	IRF520
200	0.18	10	35	TO220FP	STP19NB20FP
	0.18	19	125	TO220	STP19NB20
	0.18	18	125	TO220	IRF640
	0.4	6	30	TO220FP	STP10NB20FP
	0.4	10	85	TO220	STP10NB20
	0.4	10	100	TO220	IRF630
250	0.8	6	70	TO220	IRF620
	1	6	75	TO220	STP6NB25
300	0.4	6.5	35	TO220FP	STP12NB30FP
	0.4	12	125	TO220	STP12NB30
	0.9	4	30	TO220FP	STP7NB30FP
	0.9	7	85	TO220	STP7NB30
400	0.55	6	40	TO220FP	STP11NB40FP
	0.55	10	125	TO220	IRF740
	0.55	10.7	125	TO220	STP11NB40
	0.9	4	35	TO220FP	STP7NB40FP
	0.9	7	100	TO220	STP7NB40
	1	5.5	100	TO220	IRF730
	1.8	3.1	35	TO220FP	STP5NB40FP
500	1.8	4.7	80	TO220	STP5NB40
	0.33	15.6	160	MAX 220	STU16NB50
	0.85	4.9	40	TO220FP	STP9NB50FP
	0.85	8	125	TO220	IRF840
	0.85	8.6	125	TO220	STP9NB50
	1.5	3.4	35	TO220FP	STP6NB50FP
	1.5	4.5	100	TO220	IRF830
	1.5	5.8	100	TO220	STP6NB50
	2.8	2.5	35	TO220FP	STP4NB50FP
600	2.8	3.8	80	TO220	STP4NB50
	3	2.5	80	TO220	IRF820
	0.45	12.6	160	MAX 220	STU13NB60
	0.60	11	160	MAX 220	STU11NB60
	0.75	5.2	40	TO220FP	STP9NB60FP
	0.75	9	125	TO220	STP9NB60
	1.2	4.1	40	TO220FP	STP7NB60FP
	1.2	7.2	125	TO220	STP7NB60
800	2	3	35	TO220FP	STP5NB60FP
	2	5	100	TO220	STP5NB60
	3.6	2.2	35	TO220FP	STP3NB60FP
	3.6	3.3	80	TO220	STP3NB60
	0.8	10	160	MAX 220	STU10NB80
	1	9	160	MAX 220	STU9NB80
	1.5	6.5	40	TO220FP	STP7NB80FP
	1.5	6.5	135	TO220	STP7NB80
	1.9	5.7	40	TO220FP	STP6NB80FP
	1.9	5.7	125	TO220	STP6NB80
	2.2	5	40	TO220FP	STP5NB80FP
	2.2	5	110	TO220	STP5NB80
800	3.3	4	35	TO220FP	STP4NB80FP
	3.3	4	100	TO220	STP4NB80
	6.5	2.6	35	TO220FP	STP3NB80FP
	6.5	2.6	90	TO220	STP3NB80


TO220

TO220FP

MAX220

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

Power MOSFETS continued overleaf > > >

STANDARD continued

	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Package	Device No. & Anglia Order Code	
N Channel	900	1	8.9	160	MAX220	STU8NB90	TO220
		1.45	7.4	160	MAX220	STU7NB90	
		2	5.8	40	TO220FP	STP6NB90FP	TO220FP
		2	5.8	135	TO220	STP6NB90	
		2.5	5	40	TO220FP	STP5NB90FP	
		2.5	5	125	TO220	STP5NB90	
		2.9	4.4	40	TO220FP	STP4NB90FP	MAX220
		2.9	4.4	110	TO220	STP4NB90	
	1000	1.5	7.3	160	MAX220	STU7NB100	MAX220
		2.7	5	135	TO220	STP5NB100	
		4.4	2.1	40	TO220FP	STP4NB100FP	
		4.4	3.8	125	TO220	STP4NB100	
		6	3	100	TO220	STP3NB100	

	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Device No. & Anglia Order Code	
N Channel	60	0.01	80	180	STW80NE06-10	TO247
	100	0.022	60	180	STW60NE10	
	200	0.027	55	180	STW55NE10	
		0.065	38	180	STW38NB20	
		0.08	34	180	STW34NB20	
	400	0.26	18.4	190	STW18NB40	
	500	0.27	20	250	STW20NB50	
		0.36	14.6	190	STW15NB50	
		0.45	14	190	STW14NB50	
	600	0.54	13	180	STW13NB60	
		0.8	10	160	STW10NB60	
	800	0.8	11	190	STW11NB80	
		1.6	7.5	170	STW8NB80	
		1.9	6.5	160	STW7NB80	
	900	1	9.7	190	STW9NB90	
		1.45	8	190	STW8NB90	
		2.5	5.6	160	STW5NB90	
	1000	1.5	8	190	STW8NB100	
		2	6.3	160	STW6NB100	
		4.4	4.3	160	STW5NB100	

	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Device No. & Anglia Order Code	
N Channel	100	0.007	180	450	STE180N10	ISOTOP
	200	0.019	110	450	STE110NA20	
	500	0.13	38	400	STE38NB50	

LOGIC LEVEL

	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	P_{tot} (W)	Package	Device No. & Anglia Order Code	
N Channel	30	0.01	60	100	TO220	STP60NF03L	TO220
		0.06	22	60		STP22NE03L	
		0.02	40	80		STP40NE03L-20	
		0.022	40	70		STP40NF03L	
		0.016	60	150	TO220	STP60NE06L-16	TO220FP
	60	0.022	28	35	TO220FP	STP55NE06LFP	
		0.022	55	130	TO220	STP55NE06L	
		0.028	45	110	TO220	STP45NE06L	
		0.085	20	65	TO220	STP20NE06L	
		0.12	11	30	TO220FP	STP16NE06LFP	
		0.12	16	60	TO220	STP16NE06L	
		0.025	50	140	TO220	STP50NE10L	

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

The VIPer™ series of dedicated SMPS primary IC's combines a state-of-the-art PWM circuit, together with a Vertical Power MOSFET. Suitable for primary or secondary regulation, the VIPer™ uses approximately 50% fewer components than an equivalent discrete circuit.

	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	V _{DD} (V)	Package	Device No. & Anglia Order Code	
20W Power Capability	400	8.7	1.3	10 – 15	PENTAWATT HV	VIPER20B	 PENTAWATT HV
					PENTAWATT HV	VIPER20	
	620	16	0.5	10 – 15	PENTAWATT HV	VIPER20(022Y)	 DIP8
					DIP8	VIPER20DIP	
	700	18	0.5	10 – 15	PENTAWATT HV	VIPER20A	 POWER SO10
					DIP8	VIPER20ADIP	
					POWER SO10	VIPER20ASP	 SMD

	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	V _{DD} (V)	Package	Device No. & Anglia Order Code	
50W Power Capability	620	5	1.5	10 – 15	PENTAWATT HV	VIPER50	 PENTAWATT HV
					PENTAWATT HV	VIPER50(022Y)	
					POWER SO10	VIPER50SP	
	700	6.6	1.5	10 – 15	PENTAWATT HV	VIPER50A	 POWER SO10
					PENTAWATT HV	VIPER50A(022Y)	
					POWER SO10	VIPER50ASP	

	V _{DSS} (V)	R _{DS (on)} (Ω)	I _D (A)	V _{DD} (V)	Package	Device No. & Anglia Order Code	
100W Power Capability	620	2.5	3	10 – 15	PENTAWATT HV	VIPER100	 PENTAWATT HV
					PENTAWATT HV	VIPER100(022Y)	
					POWER SO10	VIPER100SP	
	700	3.3	3	10 – 15	PENTAWATT HV	VIPER100A	 POWER SO10



For the very latest information on the full range of ST products available from Anglia refer to our ST technical guide, available upon request.

Alternatively the guide may be viewed or downloaded from the Anglia website:

www.angliac.co.uk

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION



TO92



TO220



ISOWATT220



SO8



D²PAK

Voltage Regulators - Fixed

Type	Function	Output Voltage (V)	Current Rating (A)	Package	Device No. & Anglia Order Code			
					Through Hole Loose	Tape & Box	 Surface Mount Stick	 Tape & Reel
POSITIVE								
L78L05	Voltage Regulator. 4% Tol. 0 - 125°C	5	0.1	TO92/SO8	L78L05ACZ	L78L05ACZAP	L78L05ACD	L78L05ACD13TR
L78L06	Voltage Regulator. 4% Tol. 0 - 125°C	6	0.1	TO92/SO8	L78L06ACZ	—	L78L06ACD	L78L06ACD13TR
L78L08	Voltage Regulator. 4% Tol. 0 - 125°C	8	0.1	TO92/SO8	L78L08ACZ	—	L78L08ACD	L78L08ACD13TR
L78L09	Voltage Regulator. 4% Tol. 0 - 125°C	9	0.1	TO92/SO8	L78L09ACZ	—	L78L09ACD	L78L09ACD13TR
L78L12	Voltage Regulator. 4% Tol. 0 - 125°C	12	0.1	TO92/SO8	L78L12ACZ	—	L78L12ACD	L78L12ACD13TR
L78L15	Voltage Regulator. 4% Tol. 0 - 125°C	15	0.1	TO92/SO8	L78L15ACZ	—	L78L15ACD	L78L15ACD13TR
L78M05	Voltage Regulator. 4% Tol. 0 - 125°C	5	0.5	TO220	L78M05CV	—	—	—
L78M06	Voltage Regulator. 4% Tol. 0 - 125°C	6	0.5	TO220	L78M06CV	—	—	—
L78M08	Voltage Regulator. 4% Tol. 0 - 125°C	8	0.5	TO220	L78M08CV	—	—	—
L78M09	Voltage Regulator. 4% Tol. 0 - 125°C	9	0.5	TO220	L78M09CV	—	—	—
L78M10	Voltage Regulator. 4% Tol. 0 - 125°C	10	0.5	TO220	L78M10CV	—	—	—
L78M12	Voltage Regulator. 4% Tol. 0 - 125°C	12	0.5	TO220	L78M12CV	—	—	—
L78M15	Voltage Regulator. 4% Tol. 0 - 125°C	15	0.5	TO220	L78M15CV	—	—	—
L78M18	Voltage Regulator. 4% Tol. 0 - 125°C	18	0.5	TO220	L78M18CV	—	—	—
L78M24	Voltage Regulator. 4% Tol. 0 - 125°C	24	0.5	TO220	L78M24CV	—	—	—
L4941	Voltage Regulator. 2% Tol.	5	1.0	TO220	L4941BV	—	—	—
LM2940	Voltage Regulator. Low Dropout	5	1.0	TO220	LM2940CT-5.0	—	—	—
L4940	Voltage Regulator. 2% Tol.	5	1.5	TO220	L4940V5	—	—	—
	Voltage Regulator. 2% Tol.	10	1.5	TO220	L4940V10	—	—	—
L7805A	Voltage Regulator. 2% Tol. 0 - 125°C	5	1.5	TO220/D ² PAK	L7805ACV	—	L7805ACD2T	—
L7805C	Voltage Regulator. 4% Tol. 0 - 125°C	5	1.5	ISOWATT220	L7805CP	—	—	—
	Voltage Regulator. 4% Tol. 0 - 125°C	5	1.5	TO220	L7805CV	—	—	—
L7806A	Voltage Regulator. 2% Tol. 0 - 125°C	6	1.5	TO220/D ² PAK	L7806ACV	—	L7806ACD2T	—
L7806C	Voltage Regulator. 4% Tol. 0 - 125°C	6	1.5	ISOWATT220	L7806CP	—	—	—
	Voltage Regulator. 4% Tol. 0 - 125°C	6	1.5	TO220	L7806CV	—	—	—
L7808A	Voltage Regulator. 2% Tol. 0 - 125°C	8	1.5	TO220/D ² PAK	L7808ACV	—	L7808ACD2T	—
L7808C	Voltage Regulator. 4% Tol. 0 - 125°C	8	1.5	ISOWATT220	L7808CP	—	—	—
	Voltage Regulator. 4% Tol. 0 - 125°C	8	1.5	TO220	L7808CV	—	—	—
L7809A	Voltage Regulator. 2% Tol. 0 - 125°C	9	1.5	TO220/D ² PAK	L7809ACV	—	L7809ACD2T	—
L7809C	Voltage Regulator. 4% Tol. 0 - 125°C	9	1.5	ISOWATT220	L7809CP	—	—	—
	Voltage Regulator. 4% Tol. 0 - 125°C	9	1.5	TO220	L7809CV	—	—	—
L7812A	Voltage Regulator. 2% Tol. 0 - 125°C	12	1.5	TO220/D ² PAK	L7812ACV	—	L7812ACD2T	—
L7812C	Voltage Regulator. 4% Tol. 0 - 125°C	12	1.5	ISOWATT220	L7812CP	—	—	—
	Voltage Regulator. 4% Tol. 0 - 125°C	12	1.5	TO220	L7812CV	—	—	—
L7815A	Voltage Regulator. 2% Tol. 0 - 125°C	15	1.5	TO220/D ² PAK	L7815ACV	—	L7815ACD2T	—
L7815C	Voltage Regulator. 4% Tol. 0 - 125°C	15	1.5	ISOWATT220	L7815CP	—	—	—
	Voltage Regulator. 4% Tol. 0 - 125°C	15	1.5	TO220	L7815CV	—	—	—
L7818C	Voltage Regulator. 4% Tol. 0 - 125°C	18	1.5	TO220	L7818CV	—	—	—
L7824C	Voltage Regulator. 4% Tol. 0 - 125°C	24	1.5	TO220	L7824CV	—	—	—
L78S05	Voltage Regulator. 4% Tol. 0 - 150°C	5	2.0	TO220	L78S05CV	—	—	—
L78S09	Voltage Regulator. 4% Tol. 0 - 150°C	9	2.0	TO220	L78S09CV	—	—	—
L78S10	Voltage Regulator. 4% Tol. 0 - 150°C	10	2.0	TO220	L78S10CV	—	—	—
L78S12	Voltage Regulator. 4% Tol. 0 - 150°C	12	2.0	TO220	L78S12CV	—	—	—
L78S15	Voltage Regulator. 4% Tol. 0 - 150°C	15	2.0	TO220	L78S15CV	—	—	—
L78S18	Voltage Regulator. 4% Tol. 0 - 150°C	18	2.0	TO220	L78S18CV	—	—	—
L78S24	Voltage Regulator. 4% Tol. 0 - 150°C	24	2.0	TO220	L78S24CV	—	—	—
NEGATIVE								
L79L05	Voltage Regulator. 4% Tol. 0 - 125°C	-5	0.1	TO92/SO8	L79L05ACZ	—	L79L05ACD	—
L79L06	Voltage Regulator. 4% Tol. 0 - 125°C	-6	0.1	TO92/SO8	L79L06ACZ	—	L79L06ACD	—
L79L08	Voltage Regulator. 4% Tol. 0 - 125°C	-8	0.1	TO92/SO8	L79L08ACZ	—	L79L08ACD	—
L79L09	Voltage Regulator. 4% Tol. 0 - 125°C	-9	0.1	TO92/SO8	L79L09ACZ	—	L79L09ACD	—
L79L12	Voltage Regulator. 4% Tol. 0 - 125°C	-12	0.1	TO92/SO8	L79L12ACZ	—	L79L12ACD	—
L79L15	Voltage Regulator. 4% Tol. 0 - 125°C	-15	0.1	TO92/SO8	L79L15ACZ	—	L79L15ACD	—
L7905C	Voltage Regulator. 4% Tol. 0 - 150°C	-5	1.5	TO220	L7905CV	—	—	—
L7906C	Voltage Regulator. 4% Tol. 0 - 150°C	-6	1.5	TO220	L7906CV	—	—	—
L7908C	Voltage Regulator. 4% Tol. 0 - 150°C	-8	1.5	TO220	L7908CV	—	—	—
L7912C	Voltage Regulator. 4% Tol. 0 - 150°C	-12	1.5	TO220	L7912CV	—	—	—
L7915C	Voltage Regulator. 4% Tol. 0 - 150°C	-15	1.5	TO220	L7915CV	—	—	—
L7918C	Voltage Regulator. 4% Tol. 0 - 150°C	-18	1.5	TO220	L7918CV	—	—	—
L7920C	Voltage Regulator. 4% Tol. 0 - 150°C	-20	1.5	TO220	L7920CV	—	—	—
L7924C	Voltage Regulator. 4% Tol. 0 - 150°C	-24	1.5	TO220	L7924CV	—	—	—



Voltage Regulators - Adjustable

Type	Function	Voltage Range (V)	Current Rating (A)	Package	Device No. & Anglia Through Hole Loose/Tube	Order Code Surface Mount Stick SMD
POSITIVE						
LM317L	Adjustable Voltage Regulator	1.2 - 37	0.1	TO92/SO8	LM317LZ	LM317LD
LM723	High Precision Adjustable Voltage Regulator	2 - 37	0.15	DIP14	LM723CN	-
LM317	Adjustable Voltage Regulator	1.2 - 37	1.5	TO3	LM317K	-
L4962	Power Switching Regulator	5.1 - 40	1.5	TO220	LM317T	-
L200	Adjustable Voltage & Current Regulator	2.85 - 36	2	DIP16	L4962/A	-
L4960	Power Switching Regulator	5.1 - 40	2.5	PENTAWATT (H)	L200CH	-
L296	High Current Switching Regulator. Soft Start/SCR Control	5.1 - 40	4	PENTAWATT (V)	L200CV	-
				HEPTAWATT	L4960	-
				MULTIWATT-15	L296	-
NEGATIVE						
LM337T	Adjustable Voltage Regulator	1.2 - 37	1.5	TO220	LM337T	-

Voltage Reference/ Voltage Supervisors

Type	Function	Package	Device No. & Anglia Through Hole Loose/Tube	Order Code Surface Mount Stick SMD
LM336	2.5V Shunt Voltage Reference 4%	TO92/SO8	LM336Z	LM336D
TL431AC	2.5V to 36V Programmable Shunt Voltage Reference - 1%	TO92/SO8	TL431ACZ	TL431ACD
TL431C	2.5V to 36V Programmable Shunt Voltage Reference - 2%	TO92/SO8	TL431CZ	TL431CD
TL7702AC	2.5V to 36V Programmable Shunt Voltage Reference - 2%	DIP8	TL431CN	-
TL7705AC	Supply Voltage Supervisor. Sense Input/Threshold Voltage = -0.3 to 6V/2.58V	DIP8/SO8	TL7702ACP/A	TL7702ACD1/A
TS831-4I	Supply Voltage Supervisor. Sense Input/Threshold Voltage = -0.3 to 10V/4.6V	DIP8/SO8	TL7705ACP/A	TL7705ACD1/A
TS831-5I	Micropower Voltage Supervisor. Reset Active Low. Threshold Voltage = 4.5V	TO92/SO8	TS831-4IZ	TS831-4ID
	Micropower Voltage Supervisor. Reset Active Low. Threshold Voltage = 4.33V	TO92/SO8	TS831-5IZ	TS831-5ID

Also available

● Low dropout voltage regulators

Please contact our Sales Desk for details

Timers - Single

Type	Config.	Function	Package	Device No. & Anglia Through Hole Tube	Order Code Surface Mount Stick SMD	Tape & Reel SMD
NE555	BIPOLAR	Astable or Monostable Operation Timer	DIP8/SO8	NE555N	NE555D	NE555DT
TS555C	CMOS	Low Power Timer - 0 to 70°C	DIP8/SO8	TS555CN	TS555CD	-
TS555I	CMOS	Low Power Timer - -40 to 125°C	DIP8/SO8	TS555IN	TS555ID	-

Timers - Dual

Type	Config.	Function	Package	Device No. & Anglia Through Hole Tube	Order Code Surface Mount Stick SMD	Tape & Reel SMD
NE556	BIPOLAR	Two Independent 555 Timing Circuits Timer	DO14/S014	NE556N	NE556D	NE556DT
TS556C	CMOS	Low Power Timer	DO14/S014	TS556CN	TS556CD	-



DIP Package



SO Package

Operational Amplifiers - Single

Type	Config.	Function	Package	Device No. & Anglia Order Code	Surface Mount
				Through Hole Tube	Stick
LF351	J-FET	Wide Bandwidth Amplifier	DIP8/SO8	LF351N	LF351D
LF356	J-FET	High Performance - Low Supply Current, Wide Bandwidth Amplifier	DIP8/SO8	LF356N	LF356D
MC33171	BIPOLAR	Low Power - Single Supply Amplifier	DIP8/SO8	MC33171N	MC33171D
OP07C	-	Very Low Offset Precision Amplifier	DIP8	OP07CN	-
TL061C	J-FET	Low Power Amplifier	DIP8/SO8	TL061CN	TL061CD
TL071C	J-FET	Low Noise Amplifier	DIP8/SO8	TL071CN	TL071CD
TL081C	J-FET	General Purpose Amplifier	DIP8/SO8	TL081CN	TL081CD
TS271C	CMOS	Low Power - Programmable Supply Current	DIP8/SO8	TS271CN	TS271CD
TSH150I	-	High Speed 150MHz Amplifier - Bipolar Input	DIP8/SO8	TSH150IN	TSH150ID
TSH151I	CMOS	High Speed 150MHz Amplifier - MOS Input	DIP8/SO8	TSH151IN	TSH151ID
UA741CD	BIPOLAR	General Purpose Amplifier	DIP8/SO8	UA741CN	UA741CD
UA776C	BIPOLAR	Low Power - Programmable - High Input Impedance Amplifier	DIP8/SO8	UA776CN	UA776CD

Operational Amplifiers - Dual

Type	Config.	Function	Package	Device No. & Anglia Order Code	Surface Mount
				Through Hole Tube	Stick
LF353	J-FET	Wide Bandwidth Amplifier	DIP8/SO8	LF353N	LF353D
LM258	BIPOLAR	Low Power - Single Power Supply Amplifier	DIP8/SO8	LM258N	LM258D
LM2904	BIPOLAR	Single Power Supply Amplifier - 105°C	DIP8/SO8	LM2904N	LM2904D
LM358	BIPOLAR	Single Power Supply Amplifier	DIP8/SO8	LM358N	LM358D
LM358A	BIPOLAR	Single Power Supply - Low Input Offset Voltage Amplifier	DIP8/SO8	LM358AN	LM358AD
LM833	BIPOLAR	Low Noise Amplifier	DIP8/SO8	LM833N	LM833D
MC1458	BIPOLAR	General Purpose - Internal Frequency Compensation Amplifier	DIP8/SO8	MC1458N	MC1458D
MC33078	BIPOLAR	Low Noise Amplifier	DIP8/SO8	MC33078N	MC33078D
MC33172	BIPOLAR	Low Power - Single Supply Amplifier	DIP8/SO8	MC33172N	MC33172D
MC4558C	BIPOLAR	Wide Bandwidth Amplifier	DIP8/SO8	MC4558CN	MC4558CD
TL062C	J-FET	Low Power Amplifier	DIP8/SO8	TL062CN	TL062CD
TL072C	J-FET	Low Noise Amplifier	DIP8/SO8	TL072CN	TL072CD
TL082C	J-FET	General Purpose Amplifier	DIP8/SO8	TL082CN	TL082CD
TS272C	CMOS	Low Power - High Speed	DIP8/SO8	TS272CN	TS272CD
TS27L2C	CMOS	Low Power - Low Supply Current	DIP8/SO8	TS27L2CN	TS27L2CD
TS27M2C	CMOS	Low Power - Medium Supply Current	DIP8/SO8	TS27M2CN	TS27M2CD
TS3V902I	CMOS	3V Rail to Rail Amplifier with Standby	DIP14/SO14	TS3V902IN	TS3V902ID
TS3V912BI	CMOS	3V Rail to Rail Amplifier. 2mV Offset	DIP8/SO8	TS3V912BIN	TS3V912BID
TS3V912ID	CMOS	3V Rail to Rail Amplifier. 10mV Offset	DIP8/SO8	TS3V912IN	TS3V912ID
TS902AI	CMOS	Rail to Rail Amplifier with Standby. 5mV Offset	DIP14/SO14	TS902AIN	TS902AID
TS902I	CMOS	Rail to Rail Amplifier with Standby. 10mV Offset	DIP14/SO14	TS902IN	TS902ID
TS912I	CMOS	Rail to Rail Amplifier	DIP8/SO8	TS912IN	TS912ID
TS922I	CMOS	Rail to Rail - Low Noise, High Current Amplifier	DIP8/SO8	TS922IN	TS922ID

Operational Amplifiers - Quad

Type	Config.	Function	Package	Device No. & Anglia Order Code	Surface Mount
				Through Hole Tube	Stick
LF347	J-FET	Wide Bandwidth Amplifier	DIP14/SO14	LF347N	LF347D
LM224	BIPOLAR	General Purpose - Single Power Supply Amplifier	DIP14/SO14	LM224N	LM224D
LM2902	BIPOLAR	Single Power Supply Amplifier	DIP14/SO14	LM2902N	LM2902D
LM324	BIPOLAR	General Purpose - Single Power Supply Amplifier	DIP14/SO14	LM324N	LM324D
LM324A	BIPOLAR	General Purpose - Single Power Supply - Low Input Offset Voltage Amplifier	DIP14/SO14	LM324AN	LM324AD
LM348	BIPOLAR	Quad 741 - Low Supply Current Amplifier	DIP14/SO14	LM348N	LM348D
MC33174	BIPOLAR	Low Power - Single Supply Amplifier	DIP14/SO14	MC33174N	MC33174D
TL064C	J-FET	Low Power Amplifier	DIP14/SO14	TL064CN	TL064CD
TL074C	J-FET	Low Noise Amplifier	DIP14/SO14	TL074CN	TL074CD
TL084C	J-FET	General Purpose Amplifier	DIP14/SO14	TL084CN	TL084CD
TS274C	CMOS	Low Power - High Speed	DIP14/SO14	TS274CN	TS274CD
TS27L4C	CMOS	Low Power - Low Supply Current	DIP14/SO14	TS27L4CN	TS27L4CD
TS27M4C	CMOS	Low Power - Medium Supply Current	DIP14/SO14	TS27M4CN	TS27M4CD
TS3V904I	CMOS	3V Rail to Rail Amplifier with Standby	DIP14/SO14	TS3V904IN	TS3V904ID
TS3V914I	CMOS	3V Rail to Rail Amplifier	DIP14/SO14	TS3V914IN	TS3V914ID
TS904I	CMOS	Rail to Rail Amplifier with Standby. 10mV Offset	DIP14/SO14	TS904IN	TS904ID
TS914I	CMOS	Rail to Rail Amplifier	DIP14/SO14	TS914IN	TS914ID
TS924I	-	Rail to Rail - Low Noise, High Current Amplifier	DIP14/SO14	TS924IN	TS924ID
TS925I	-	Rail to Rail - Low Noise, High Current Amplifier with Standby	DIP16/SO16	TS925IN	TS925ID



Comparators - Single							
Type	Config.	Function	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick		
LM311	BIPOLAR	Low Input Current - Single Power Supply Voltage Comparator	DIP8/SO8	LM311N	LM311D		
Comparators - Dual							
Type	Config.	Function	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick		
LM2903	BIPOLAR	Low Offset Voltage Comparator	DIP8/SO8	LM2903N	LM2903D		
LM319	BIPOLAR	High Speed - Single Supply Operation Comparator	DIP14/SO14	LM319N	LM319D		
LM393	BIPOLAR	Low Offset Voltage Comparator	DIP8/SO8	LM393N	LM393D		
TS3702C	CMOS	Micropower - Push Pull Output Comparator	DIP8/SO8	TS3702CN	TS3702CD		
TS393C	CMOS	Micropower Comparator	DIP8/SO8	TS393CN	TS393CD		
Comparators - Quad							
Type	Config.	Function	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick		
LM239	BIPOLAR	Low Offset Voltage Comparator	DIP14/SO14	LM239N	LM239D		
LM2901	BIPOLAR	Low Offset Voltage Comparator	DIP14/SO14	LM2901N	LM2901D		
LM339	BIPOLAR	Low Offset Voltage Comparator	DIP14/SO14	LM339N	LM339D		
LM339A	BIPOLAR	Very Low Offset Voltage Comparator	DIP14/SO14	LM339AN	LM339AD		
TS339C	CMOS	Micropower Comparator	DIP14/SO14	TS339CN	TS339CD		
TS3704C	CMOS	Micropower - Push Pull Output Comparator	DIP14/SO14	TS3704CN	TS3704CD		
Drivers & Power Factor Correctors							
Type	Function	Current Rating (A)	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick		
L165	DC Motor Driver	—	PENTAWATT	L165V	—		
L272	DC Motor Driver	—	DIP8	L272M	—		
L6569	High Voltage Half Bridge Driver with Oscillator	0.27	DIP8	L6569A	—		
L6574(D)	CFL/TL Ballast Driver Preheat & Dimming	0.45	DIP16/SO16	L6574	L6574D		
L293	Push-Pull 4 Channel Driver with Internal Clamp Diodes	0.6	DIP16	L293D	—		
L6202	DMOS Full Bridge Driver	1.5	DIP18	L6202	—		
L4981A	Power Factor Corrector - Fixed Frequency	2	DIP20	L4981A	—		
L6203	DMOS Full Bridge Driver	4	MULTIWATT-11	L6203	—		
L6560	Power Factor Corrector. VCC On/Off Threshold = 15.5/11V	—	DIP8	L6560	—		
L6561	Power Factor Corrector	—	DIP8	L6561	—		
M5450	34 output, LED Display Driver with Enable	—	DIP40	M5450B7	—		
M5451	35 output, LED Display Driver	—	DIP40	M5451B7	—		
Supplementary Devices							
Type	Function	Package	Device No. & Through Hole Loose/Tube	Anglia Order Code Surface Mount Stick			
LM334	Three Terminal Adjustable Current Source	TO92/SO8	LM334Z	LM334D			
LM335	Precision Temperature Sensor	TO92/SO8	LM335Z	LM335D			
MC34063AC	DC - DC Converter Control Circuit	DIP8/SO8	MC34063ACN	MC34063ACD			
ST232C	RS232 5V Multichannel Transceiver	DIP16/SO16	ST232CN	ST232CD			
PWM Controllers							
Type	Function	UVLO (V on/off)	Duty (%)	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick	
SG3524	Regulating Pulse Width Monitor.	-	-	DIP16/SO16	SG3524N	SG3524P	
SG3525A	Regulating Pulse Width Monitor. Soft Start	-	-	DIP16/SO16	SG3525AN	SG3525AP	
UC2842	Current Mode PWM Controller - -25 to 85°C	17/11	100	DIP8/SO14	UC2842N	UC2842D	
UC2843	Current Mode PWM Controller - -25 to 85°C	9/8.2	100	DIP8/SO14	UC2843N	UC2843D	
UC2844	Current Mode PWM Controller - -25 to 85°C	17/11	50	DIP8/SO14	UC2844N	UC2844D	
UC2845	Current Mode PWM Controller - -25 to 85°C	9/8.2	50	DIP8/SO14	UC2845N	UC2845D	
UC3842	Current Mode PWM Controller - 0 to 70°C	17.5/11.5	100	DIP8/SO14	UC3842N	UC3842D	
UC3843	Current Mode PWM Controller - 0 to 70°C	9/8.2	100	DIP8/SO14	UC3843N	UC3843D	
UC3844	Current Mode PWM Controller - 0 to 70°C	17.5/11.5	50	DIP8/SO14	UC3844N	UC3844D	
UC3845	Current Mode PWM Controller - 0 to 70°C	9/8.2	50	DIP8/SO14	UC3845N	UC3845D	

4000B Series CMOS

Recommended Operating Conditions

Parameter	Symbol	Value	Unit
Supply Voltage	V_{CC}	3 to 18	V
Input Voltage	V_I	0 to V_{CC}	V
Operating Temperature	T_A	-40 to +85	C

A family of well established CMOS logic offering low power consumption, high noise immunity and a wide supply voltage range.

Type	Function	Pins	Device No. & Anglia Order Code		
			Through Hole	Surface Mount	
			DIP package Tube	 Stick	 SO package Tape & Reel
4000B	Dual 3-Input NOR Gate plus Inverter	14	HCF4000BEY	HCF4000BM1	HCF4000M013TR
4001B	Quad 2-Input NOR Gate	14	HCF4001BEY	HCF4001BM1	HCF4001M013TR
4002B	Dual 4-Input NOR Gate	14	HCF4002BEY	HCF4002BM1	HCF4002M013TR
4006B	18-Stage Static Shift Register	14	HCF4006BEY	HCF4006BM1	HCF4006M013TR
4007UB	Dual Complementary Pair plus Inverter	14	HCF4007UBEY	HCF4007UBM1	HCF4007UBM013TR
4009UB	Hex Buffer/Converter Inverting	16	HCF4009UBEY	HCF4009UBM1	HCF4009UM013TR
4010B	Hex Buffer/Converter Non-Inverting	16	HCF4010BEY	HCF4010BM1	HCF4010M013TR
4011B	Quad 2-Input NAND Gate	14	HCF4011BEY	HCF4011BM1	HCF4011M013TR
4012B	Dual 4-Input NAND Gate	14	HCF4012BEY	HCF4012BM1	HCF4012M013TR
4013B	Dual D Flip-Flop	14	HCF4013BEY	HCF4013BM1	HCF4013M013TR
4014B	8-Stage Static Shift Register	16	HCF4014BEY	HCF4014BM1	HCF4014M013TR
4015B	Dual 4-Stage Static Shift Register	16	HCF4015BEY	HCF4015BM1	HCF4015M013TR
4016B	Quad Bilateral Switch	14	HCF4016BEY	HCF4016BM1	HCF4016M013TR
4017B	Decade Counter/Divider	16	HCF4017BEY	HCF4017BM1	HCF4017M013TR
4018B	Presetable Divide-by-N counter	16	HCF4018BEY	HCF4018BM1	HCF4018M013TR
4019B	Quad AND/OR Select Gate	16	HCF4019BEY	HCF4019BM1	HCF4019M013TR
4020B	14-Stage Binary/Ripple Counter	16	HCF4020BEY	HCF4020BM1	HCF4020M013TR
4021B	8-Stage Static Shift Register	16	HCF4021BEY	HCF4021BM1	HCF4021M013TR
4022B	Divide-By-8 Counter/Divider	16	HCF4022BEY	HCF4022BM1	HCF4022M013TR
4023B	Triple 3-Input NAND Gate	14	HCF4023BEY	HCF4023BM1	HCF4023M013TR
4024B	7-Stage Binary/Ripple Counter	14	HCF4024BEY	HCF4024BM1	HCF4024M013TR
4025B	Triple 3-Input NOR Gate	14	HCF4025BEY	HCF4025BM1	HCF4025M013TR
4027B	Dual J-K Master-Slave Flip-Flop	16	HCF4027BEY	HCF4027BM1	HCF4027M013TR
4028B	BCD to Decimal Decoder	16	HCF4028BEY	HCF4028BM1	HCF4028M013TR
4029B	Presetable Up/Down Counter	16	HCF4029BEY	HCF4029BM1	HCF4029M013TR
4030B	Quad Exclusive OR Gate	14	HCF4030BEY	HCF4030BM1	HCF4030M013TR
4035B	4-Stage Parallel I/O Shift Register	16	HCF4035BEY	HCF4035BM1	HCF4035M013TR
4040B	12-Stage Binary/Ripple Counter	16	HCF4040BEY	HCF4040BM1	HCF4040M013TR
4041UB	Quad True/Complement Buffer	14	HCF4041UBEY	HCF4041UBM1	HCF4041UM013TR
4042B	Quad Clocked D Latch	16	HCF4042BEY	HCF4042BM1	HCF4042M013TR
4043B	Quad NOR R/S Latch (3-State)	16	HCF4043BEY	HCF4043BM1	HCF4043M013TR
4044B	Quad NAND R/S Latch (3-State)	16	HCF4044BEY	HCF4044BM1	HCF4044M013TR
4046B	Micropower Phase Locked Loop	16	HCF4046BEY	HCF4046BM1	-
4047B	Monostable/Astable Multivibrator	14	HCF4047BEY	HCF4047BM1	HCF4047M013TR
4049UB	Hex Inverting Buffer/Converter	16	HCF4049UBEY	HCF4049UBM1	HCF4049UM013TR
4050B	Hex Non-Inverting Buffer/Converter	16	HCF4050BEY	HCF4050BM1	HCF4050M013TR
4051B	Single 8-Channel Analog Multiplexer/Demultiplexer	16	HCF4051BEY	HCF4051BM1	HCF4051M013TR
4052B	Dual 4-Channel Analog Multiplexer/Demultiplexer	16	HCF4052BEY	HCF4052BM1	HCF4052M013TR
4053B	Triple 2-Channel Analog Multiplexer/Demultiplexer	16	HCF4053BEY	HCF4053BM1	HCF4053M013TR
4054B	4-Segment Display Driver	16	HCF4054BEY	HCF4054BM1	HCF4054M013TR
4056B	BCD to 7-Segment Decoder/Driver	16	HCF4056BEY	HCF4056BM1	HCF4056M013TR
4060B	14-Stage Counter/Driver and Oscillator	16	HCF4060BEY	HCF4060BM1	HCF4060M013TR
4063B	4-Bit Magnitude Comparator	16	HCF4063BEY	HCF4063BM1	HCF4063M013TR
4066B	Quad Bilateral Switch	14	HCF4066BEY	HCF4066BM1	HCF4066M013TR
4068B	8-Input NAND/AND Gate	14	HCF4068BEY	HCF4068BM1	HCF4068M013TR
4069UB	Hex Inverter	14	HCF4069UBEY	HCF4069UBM1	HCF4069UM013TR
4070B	Quad Exclusive OR Gate	14	HCF4070BEY	HCF4070BM1	HCF4070M013TR
4071B	Quad 2-Input OR Gate	14	HCF4071BEY	HCF4071BM1	HCF4071M013TR
4072B	Dual 4-Input OR Gate	14	HCF4072BEY	HCF4072BM1	HCF4072M013TR
4073B	Triple 3-Input AND Gate	14	HCF4073BEY	HCF4073BM1	HCF4073M013TR

4000B Series CMOS

continued

Type	Function	Pins	Device No. & Anglia Order Code		
			Through Hole	Surface Mount	
			DIP package Tube	 Stick	 Tape & Reel
4075B	Triple 3-Input OR Gate	14	HCF4075BEY	HCF4075BM1	HCF4075M013TR
4076B	4-Bit D-Type Register	16	HCF4076BEY	HCF4076BM1	HCF4076M013TR
4077B	Quad Exclusive NOR Gate	14	HCF4077BEY	HCF4077BM1	HCF4077M013TR
4078B	8-Input NOR/OR Gate	14	HCF4078BEY	HCF4078BM1	HCF4078M013TR
4081B	Quad 2-Input AND Gate	14	HCF4081BEY	HCF4081BM1	HCF4081M013TR
4082B	Dual 4-Input AND Gate	14	HCF4082BEY	HCF4082BM1	HCF4082M013TR
4093B	Quad 2-Input NAND Schmitt Trigger	14	HCF4093BEY	HCF4093BM1	HCF4093M013TR
4094B	8-Stage Shift-AND-Store Bus Register	16	HCF4094BEY	HCF4094BM1	HCF4094M013TR
4095B	Gated J-K Master-Slave Flip-Flop	14	HCF4095BEY	-	-
4097B	Differential 8-Channel Analog Multiplexer/Demultiplexer	24	-	HCF4097BM1	-
4098B	Dual Monostable Multivibrator	16	HCF4098BEY	HCF4098BM1	HCF4098M013TR
4099B	8-Bit Addressable Latch	16	HCF4099BEY	HCF4099BM1	HCF4099M013TR
4502B	Strobed Hex Inverter/Buffer	16	HCF4502BEY	HCF4502BM1	HCF4502M013TR
4503B	Hex Buffer (3-State Non-Inverting)	16	HCF4503BEY	HCF4503BM1	HCF4503M013TR
4511B	BCD to 7-Segment Latch-Decoder/Driver	16	HCF4511BEY	HCF4511BM1	HCF4511M013TR
4512B	8-Channel Data Selector with 3-State Output	16	HCF4512BEY	HCF4512BM1	HCF4512M013TR
4516B	Presettable 4-Bit Binary Up/Down Counter	16	HCF4516BEY	-	-
4517B	Dual 64-Stage Static Shift Register	16	HCF4517BEY	-	-
4518B	Dual BCD Up Counter	16	HCF4518BEY	HCF4518BM1	HCF4518M013TR
4520B	Dual Binary Up Counter	16	HCF4520BEY	HCF4520BM1	HCF4520M013TR
4527B	BCD Rate Multiplier	16	HCF4527BEY	-	-
4532B	8-Input Priority Encoder	16	HCF4532BEY	HCF4532BM1	HCF4532M013TR
4536B	Programmable Timer	16	HCF4536BEY	-	-
4538B	Dual Precision Monostable Multivibrator	16	HCF4538BEY	HCF4538BM1	HCF4538M013TR
4541B	Programmable Timer	14	HCF4541BEY	HCF4541BM1	HCF4541M013TR
4555B	Dual 1 of 4 Decoder/Demultiplexer (Out. High)	16	HCF4555BEY	-	-
4556B	Dual 1 of 4 Decoder/Demultiplexer (Out. Low)	16	HCF4556BEY	HCF4556BM1	HCF4556M013TR
4585B	4-Bit Magnitude Comparator	16	HCF4585BEY	HCF4585BM1	HCF4585M013TR
40100B	32-Stage Static Left/Right Shift Register	16	HCF40100BEY	-	-
40101B	9-Bit Parity Generator/Checker	14	HCF40101BEY	-	-
40102B	Presettable 2-Decade BCD Down Counter	16	HCF40102BEY	-	-
40103B	Presettable 8-Bit Binary Down Counter	16	HCF40103BEY	-	-
40105B	4-Bit x 16-Word	16	HCF40105BEY	-	-
40106B	Hex Schmitt Trigger	14	HCF40106BEY	HCF40106BM1	HCF40106M013TR
40107B	Dual 2-Input NAND Buffer/Driver	8	HCF40107BEY	HCF40107BM1	HCF40107M013TR
40109B	Quad Low to High Voltage Level Shifter	16	HCF40109BEY	HCF40109BM1	HCF40109M013TR
40174B	Hex D Flip-Flop	16	HCF40174BEY	HCF40174BM1	HCF40174M013TR
40193B	Presettable 4-Bit Binary Up/Down Counter	16	HCF40193BEY	HCF40193BM1	HCF40193M013TR



Also available from ST

- 74LCX series, Low Voltage High Speed CMOS
- 74LVQ series, Low Voltage, Low Noise High Speed CMOS
- 74LVX series, Low voltage, Low Noise High Speed CMOS (3.3 & 5V Input)

Please refer to our ST technical guide available on request.
Alternatively the technical guide can be viewed or downloaded
from the Anglia website :

www.angliac.co.uk

74HC/HCT Series HIGH SPEED CMOS

Recommended Operating Conditions

Parameter	Symbol	Value	Unit
Supply Voltage HC Series	V_{CC}	2 to 6	V
HCT Series		4.5 to 5.5	V
Input Voltage	V_I	0 to V_{CC}	V
Operating Temperature	T_A	- 40 to +85	C

Two established families of high speed CMOS logic, compatible with 4000B CMOS (74HC series) and 74LS TTL (74HCT series) yet offering superior performance.

Type	Function	Pins	Device No. & Anglia Order Code		
			Through Hole	Surface Mount	
			DIP package  Tube	SO package  Stick 	SO package  Tape & Reel
74HC00	Quad 2-Input NAND Gate	14	M74HC00B1R	M74HC00M1R	M74HC00RM13TR
74HCT00	Quad 2-Input NAND Gate	14	M74HCT00B1R	M74HCT00M1R	M74HCT00RM13TR
74HC02	Quad 2-Input NOR Gate	14	M74HC02B1R	M74HC02M1R	M74HC02RM13TR
74HCT02	Quad 2-Input NOR Gate	14	M74HCT02B1R	M74HCT02M1R	M74HCT02RM13TR
74HC03	Quad 2-Input NAND (Open Drain)	14	M74HC03B1R	M74HC03M1R	M74HC03RM13TR
74HC04	Hex Inverter	14	M74HC04B1R	M74HC04M1R	M74HC04RM13TR
74HCT04	Hex Inverter	14	M74HCT04B1R	M74HCT04M1R	M74HCT04RM13TR
74HCU04	Hex Inverter (Single Stage)	14	M74HCU04B1R	M74HCU04M1R	M74HCU04RM13TR
74HC05	Hex Inverter (Open Stage)	14	M74HC05B1R	M74HC05M1R	M74HC05RM13TR
74HC08	Quad 2-Input AND Gate	14	M74HC08B1R	M74HC08M1R	M74HC08RM13TR
74HCT08	Quad 2-Input AND Gate	14	M74HCT08B1R	M74HCT08M1R	M74HCT08RM13TR
74HC09	Quad 2-Input AND Gate (Open Drain)	14	M74HC09B1R	M74HC09M1R	M74HC09RM13TR
74HC10	Triple 3-Input NAND Gate	14	M74HC10B1R	M74HC10M1R	M74HC10RM13TR
74HCT10	Triple 3-Input NAND Gate	14	M74HCT10B1R	M74HCT10M1R	M74HCT10RM13TR
74HC11	Triple 3-Input AND Gate	14	M74HC11B1R	M74HC11M1R	M74HC11RM13TR
74HC14	Hex Schmitt Inverter	14	M74HC14B1R	M74HC14M1R	M74HC14RM13TR
74HCT14	Hex Schmitt Inverter	14	M74HCT14B1R	M74HCT14M1R	M74HCT14RM13TR
74HC20	Dual 4-Input NAND Gate	14	M74HC20B1R	M74HC20M1R	M74HC20RM13TR
74HC21	Dual 4-Input AND Gate	14	M74HC21B1R	M74HC21M1R	M74HC21RM13TR
74HC27	Triple 3-Input NOR Gate	14	M74HC27B1R	M74HC27M1R	M74HC27RM13TR
74HC30	8-Input NAND Gate	14	M74HC30B1R	M74HC30M1R	M74HC30RM13TR
74HCT30	8-Input NAND Gate	14	M74HCT30B1R	M74HCT30M1R	M74HCT30RM13TR
74HC32	Quad 2-Input OR Gate	14	M74HC32B1R	M74HC32M1R	M74HC32RM13TR
74HCT32	Quad 2-Input OR Gate	14	M74HCT32B1R	M74HCT32M1R	M74HCT32RM13TR
74HC42	BCD to Decimal Decoder	16	M74HC42B1R	M74HC42M1R	M74HC42RM13TR
74HC51	Dual 2-Wide 2-Input/3-Input AND-OR Inv. Gate	14	M74HC51B1R	M74HC51M1R	M74HC51RM13TR
74HC73	Dual J-K Flip-Flop with Clear	14	M74HC73B1R	M74HC73M1R	M74HC73RM13TR
74HC74	Dual D-Type Flip-Flop with Preset and Clear	14	M74HC74B1R	M74HC74M1R	M74HC74RM13TR
74HCT74	Dual D-Type Flip-Flop with Preset and Clear	14	M74HCT74B1R	M74HCT74M1R	M74HCT74RM13TR
74HC75	4-Bit D-Type Latch	16	M74HC75B1R	M74HC75M1R	M74HC75RM13TR
74HC85	4-Bit Magnitude Comparator	16	M74HC85B1R	M74HC85M1R	M74HC85RM13TR
74HC86	Quad Exclusive OR Gate	14	M74HC86B1R	M74HC86M1R	M74HC86RM13TR
74HCT86	Quad Exclusive OR Gate	14	M74HCT86B1R	M74HCT86M1R	M74HCT86RM13TR
74HC107	Dual J-K Flip-Flop with Clear	14	M74HC107B1R	M74HC107M1R	M74HC107RM13TR
74HC109	Dual J-K Flip-Flop with Preset and Clear	16	M74HC109B1R	M74HC109M1R	M74HC109RM13TR
74HC112	Dual J-K Flip-Flop with Preset and Clear	16	M74HC112B1R	M74HC112M1R	M74HC112RM13TR
74HC113	Dual J-K Flip-Flop with Preset	14	M74HC113B1R	M74HC113M1R	M74HC113RM13TR
74HC123	Dual Retriggerable Monostable Multivibrator	16	M74HC123B1R	M74HC123M1R	M74HC123RM13TR
74HC125	Quad Bus Buffer (3-State)	14	M74HC125B1R	M74HC125M1R	M74HC125RM13TR
74HCT125	Quad Bus Buffer (3-State)	14	M74HCT125B1R	M74HCT125M1R	M74HCT125RM13TR
74HC126	Quad Bus Buffer (3-State)	14	M74HC126B1R	M74HC126M1R	M74HC126RM13TR
74HCT126	Quad Bus Buffer (3-State)	14	M74HCT126B1R	M74HCT126M1R	M74HCT126RM13TR
74HC132	Quad 2-Input Schmitt NAND Gate	14	M74HC132B1R	M74HC132M1R	M74HC132RM13TR
74HCT132	Quad 2-Input Schmitt NAND Gate	14	M74HCT132B1R	M74HCT132M1R	M74HCT132RM13TR
74HC133	13-Input NAND Gate	16	M74HC133B1R	M74HC133M1R	M74HC133RM13TR
74HC137	3 to 8 Line Decoder Latch (Inv.)	16	M74HC137B1R	M74HC137M1R	M74HC137RM13TR
74HCT137	3 to 8 Line Decoder Latch (Inv.)	16	M74HCT137B1R	M74HCT137M1R	M74HCT137RM13TR
74HC138	3 to 8 Line Decoder (Inv.)	16	M74HC138B1R	M74HC138M1R	M74HC138RM13TR
74HCT138	3 to 8 Line Decoder (Inv.)	16	M74HCT138B1R	M74HCT138M1R	M74HCT138RM13TR
74HC139	Dual 2 to 4 Line Decoder/Demultiplexer	16	M74HC139B1R	M74HC139M1R	M74HC139RM13TR
74HC147	10 to 4 Line Priority Encoder	16	M74HC147B1R	M74HC147M1R	M74HC147RM13TR
74HC148	8 to 3 Line Priority Encoder	16	M74HC148B1R	M74HC148M1R	M74HC148RM13TR
74HC151	8-Channel Multiplexer	16	M74HC151B1R	M74HC151M1R	M74HC151RM13TR
74HC153	Dual 4-Channel Multiplexer	16	M74HC153B1R	M74HC153M1R	M74HC153RM13TR
74HC154	4 to 16 Line Decoder/Demultiplexer	24	M74HC154B1R	M74HC154M1R	M74HC154RM13TR
74HC155	Dual 2 to 4 Line Decoder/3 to 8 Line Decoder	16	M74HC155B1R	M74HC155M1R	M74HC155RM13TR
74HC157	Quad 2-Channel Multiplexer	16	M74HC157B1R	M74HC157M1R	M74HC157RM13TR
74HCT157	Quad 2-Channel Multiplexer	16	M74HCT157B1R	M74HCT157M1R	M74HCT157RM13TR

74HC/HCT Series HIGH SPEED CMOS *continued*

Type	Function	Pins	Device No. & Anglia Order Code		
			Through Hole DIP package Tube	Surface Mount Stick	Surface Mount SO package Tape & Reel
74HCT158	Quad 2-Channel Multiplexer (Inv.)	16	M74HCT158B1R	–	–
74HC160	Synchronous Decade Counter with Async. Clear	16	M74HC160B1R	M74HC160M1R	M74HC160RM13TR
74HC161	Synchronous Binary Counter with Async. Clear	16	M74HC161B1R	M74HC161M1R	M74HC161RM13TR
74HC163	Synchronous Binary Counter with Sync. Clear	16	M74HC163B1R	M74HC163M1R	M74HC163RM13TR
74HC164	8-Bit SIPO Shift Register	14	M74HC164B1R	M74HC164M1R	M74HC164RM13TR
74HCT164	8-Bit SIPO Shift Register	14	M74HCT164B1R	M74HCT164M1R	M74HCT164RM13TR
74HC165	8-Bit PISO Shift Register	16	M74HC165B1R	M74HC165M1R	M74HC165RM13TR
74HC166	8-Bit PISO Shift Register	16	M74HC166B1R	M74HC166M1R	M74HC166RM13TR
74HC173	Quad D-Type Register (3-State)	16	M74HC173B1R	M74HC173M1R	M74HC173RM13TR
74HC174	Hex D-Type Flip-Flop with Clear	16	M74HC174B1R	M74HC174M1R	M74HC174RM13TR
74HCT174	Hex D-Type Flip-Flop with Clear	16	M74HCT174B1R	M74HCT174M1R	M74HCT174RM13TR
74HC175	Quad D-Type Flip-Flop with Clear	16	M74HC175B1R	M74HC175M1R	M74HC175RM13TR
74HC191	4-Bit Synchronous Binary Up/Down Counter	16	M74HC191B1R	M74HC191M1R	M74HC191RM13TR
74HC192	Synchronous Up/Down Decade Counter	16	M74HC192B1R	M74HC192M1R	M74HC192RM13TR
74HC193	Synchronous Up/Down Binary Counter	16	M74HC193B1R	M74HC193M1R	M74HC193RM13TR
74HC194	4-Bit PIPO Shift Register	16	M74HC194B1R	M74HC194M1R	M74HC194RM13TR
74HC221	Dual Monostable Multivibrator	16	M74HC221B1R	M74HC221M1R	M74HC221RM13TR
74HC237	3 to 8 Line Decoder Latch	16	M74HC237B1R	M74HC237M1R	M74HC237RM13TR
74HC238	3 to 8 Line Decoder	16	M74HC238B1R	M74HC238M1R	M74HC238RM13TR
74HC240	Octal Bus Buffer (3-State/Inverted)	20	M74HC240B1R	M74HC240M1R	M74HC240RM13TR
74HCT240	Octal Bus Buffer (3-State/Inverted)	20	M74HCT240B1R	M74HCT240M1R	M74HCT240RM13TR
74HC241	Octal Bus Buffer (3-State)	20	M74HC241B1R	M74HC241M1R	M74HC241RM13TR
74HCT241	Octal Bus Buffer (3-State)	20	M74HCT241B1R	M74HCT241M1R	M74HCT241RM13TR
74HC243	Quad Bus Transceiver (3-State)	14	M74HC243B1R	M74HC243M1R	M74HC243RM13TR
74HC244	Octal Bus Buffer (3-State)	20	M74HC244B1R	M74HC244M1R	M74HC244RM13TR
74HCT244	Octal Bus Buffer (3-State)	20	M74HCT244B1R	M74HCT244M1R	M74HCT244RM13TR
74HC245	Octal Bus Transceiver (3-State)	20	M74HC245B1R	M74HC245M1R	M74HC245RM13TR
74HCT245	Octal Bus Transceiver (3-State)	20	M74HCT245B1R	M74HCT245M1R	M74HCT245RM13TR
74HC251	8-Channel Multiplexer (3-State)	16	M74HC251B1R	M74HC251M1R	M74HC251RM13TR
74HC253	Dual 4-Channel Multiplexer (3-State/Inverted)	16	M74HC253B1R	M74HC253M1R	M74HC253RM13TR
74HC257	Quad 2-Channel Multiplexer (3-State)	16	M74HC257B1R	M74HC257M1R	M74HC257RM13TR
74HCT257	Quad 2-Channel Multiplexer (3-State)	16	M74HCT257B1R	M74HCT257M1R	M74HCT257RM13TR
74HC258	Quad 2-Channel Multiplexer (3-State/Inverted)	16	M74HC258B1R	–	–
74HC259	8-Bit Addressable Latch	16	M74HC259B1R	M74HC259M1R	M74HC259RM13TR
74HC266	Quad Exclusive NOR Gate with Open Drain	14	M74HC266B1R	M74HC266M1R	M74HC266RM13TR
74HC273	Octal D-Type Flip-Flop with Clear	20	M74HC273B1R	M74HC273M1R	M74HC273RM13TR
74HCT273	Octal D-Type Flip-Flop with Clear	20	M74HCT273B1R	M74HCT273M1R	M74HCT273RM13TR
74HC279	Quad S-R Latch	16	M74HC279B1R	M74HC279M1R	M74HC279RM13TR
74HC283	4-Bit Binary Full Adder	16	M74HC283B1R	M74HC283M1R	M74HC283RM13TR
74HC298	Quad 2-Channel Multiplexer Register	16	M74HC298B1R	M74HC298M1R	M74HC298RM13TR
74HC299	8-Bit PIPO Shift Register (3-State)	20	M74HC299B1R	M74HC299M1R	M74HC299RM13TR
74HC365	Hex Bus Buffer (3-State)	16	M74HC365B1R	M74HC365M1R	M74HC365RM13TR
74HC366	Hex Bus Buffer (3-State/Inverted)	16	M74HC366B1R	M74HC366M1R	M74HC366RM13TR
74HC367	Hex Bus Buffer (3-State)	16	M74HC367B1R	M74HC367M1R	M74HC367RM13TR
74HCT367	Hex Bus Buffer (3-State)	16	–	M74HCT367M1R	–
74HC368	Hex Bus Buffer (3-State/Inverted)	16	M74HC368B1R	M74HC368M1R	M74HC368RM13TR
74HC373	Octal D-Type Latch (3-State)	20	M74HC373B1R	M74HC373M1R	M74HC373RM13TR
74HCT373	Octal D-Type Latch (3-State)	20	M74HCT373B1R	M74HCT373M1R	M74HCT373RM13TR



Also available from ST

- 74VHC/VHCT series, Low Noise Very High Speed CMOS

Please refer to our ST technical guide available on request.
Alternatively the technical guide can be viewed or downloaded
from the Anglia website :

www.angliac.co.uk

74HC/HCT series *continued overleaf* > > >

74HC/HCT Series HIGH SPEED CMOS

continued

Type	Function	Pins	Device No. & Anglia Order Code		
			Through Hole	Surface Mount	
			DIP package Tube	SO package Stick Tape & Reel	SO package Tape & Reel
74HC374	Octal D-Type Flip-Flop (3-State)	20	M74HC374B1R	M74HC374M1R	M74HC374RM13TR
74HCT374	Octal D-Type Flip-Flop (3-State)	20	M74HCT374B1R	M74HCT374M1R	M74HCT374RM13TR
74HC377	Octal D-Type Flip-Flop	20	M74HC377B1R	M74HC377M1R	M74HC377RM13TR
74HC390	Dual Decade Counter	16	M74HC390B1R	M74HC390M1R	M74HC390RM13TR
74HC393	Dual Binary Counter	14	M74HC393B1R	M74HC393M1R	M74HC393RM13TR
74HC423	Dual Monostable Multivibrator with Clear	16	M74HC423B1R	M74HC423M1R	M74HC423RM13TR
74HCT534	Octal D-Type Flip-Flop (3-State/Inverted)	20	M74HCT534B1R	—	—
74HC540	Octal Bus Buffer (3-State/Inverted)	20	M74HC540B1R	M74HC540M1R	M74HC540RM13TR
74HCT540	Octal Bus Buffer (3-State/Inverted)	20	M74HCT540B1R	M74HCT540M1R	M74HCT540RM13TR
74HC541	Octal Bus Buffer (3-State)	20	M74HC541B1R	M74HC541M1R	M74HC541RM13TR
74HCT541	Octal Bus Buffer (3-State)	20	M74HCT541B1R	M74HCT541M1R	M74HCT541RM13TR
74HC563	Octal D-Type Latch (3-State/Inverted)	20	M74HC563B1R	M74HC563M1R	—
74HC564	Octal D-Type Flip-Flop (3-State/Inverted)	20	M74HC564B1R	—	—
74HC573	Octal D-Type Latch (3-State)	20	M74HC573B1R	M74HC573M1R	M74HC573RM13TR
74HCT573	Octal D-Type Latch (3-State)	20	M74HCT573B1R	M74HCT573M1R	M74HCT573RM13TR
74HC574	Octal D-Type Flip-Flop (3-State)	20	M74HC574B1R	M74HC574M1R	M74HC574RM13TR
74HCT574	Octal D-Type Flip-Flop (3-State)	20	M74HCT574B1R	M74HCT574M1R	M74HCT574RM13TR
74HC590	8-Bit Binary Counter Register (3-State)	16	M74HC590B1R	M74HC590M1R	M74HC590RM13TR
74HC592	8-Bit Binary Counter with Input Register	16	M74HC592B1R	M74HC592M1R	M74HC592RM13TR
74HC595	8-Bit Shift Register Output Latch (3-State)	16	M74HC595B1R	M74HC595M1R	M74HC595RM13TR
74HC597	8-Bit Latch Shift Register	16	M74HC597B1R	M74HC597M1R	M74HC597RM13TR
74HC620	Octal Bus Transceiver (3-State/Inverted)	20	M74HC620B1R	—	—
74HC623	Octal Bus Transceiver (3-State)	20	M74HC623B1R	—	—
74HC640	Octal Bus Transceiver (3-State/Inverted)	20	M74HC640B1R	—	—
74HCT640	Octal Bus Transceiver (3-State/Inverted)	20	M74HCT640B1R	—	—
74HC646	Octal Bus Transceiver Register (3-State)	24	M74HC646B1R	M74HC646M1R	—
74HCT646	Octal Bus Transceiver Register (3-State)	24	M74HCT646B1R	—	—
74HC651	Octal Bus Transceiver Register (3-State/Inverted)	24	M74HC651B1R	M74HC651M1R	M74HC651RM13TR
74HC652	Octal Bus Transceiver Register	24	M74HC652B1R	M74HC652M1R	M74HC652RM13TR
74HCT652	Octal Bus Transceiver Register	24	M74HCT652B1R	M74HCT652M1R	M74HCT652RM13TR
74HC688	8-Bit Equality Comparator	20	M74HC688B1R	M74HC688M1R	M74HC688RM13TR
74HCT688	8-Bit Equality Comparator	20	M74HCT688B1R	M74HCT688M1R	M74HCT688RM13TR
74HC4002	Dual 4-Input NOR Gate	14	M74HC4002B1R	M74HC4002M1R	M74HC4002RM13TR
74HC4016	Quad Bilateral Switches	14	M74HC4016B1R	M74HC4016M1R	M74HC4016RM13TR
74HC4017	Decade Counter/Divider	16	M74HC4017B1R	M74HC4017M1R	M74HC4017RM13TR
74HC4020	14-Stage Binary Counter	16	M74HC4020B1R	M74HC4020M1R	M74HC4020RM13TR
74HC4024	7-Stage Binary Counter	14	M74HC4024B1R	M74HC4024M1R	M74HC4024RM13TR
74HC4040	12-Stage Binary Counter	16	M74HC4040B1R	M74HC4040M1R	M74HC4040RM13TR
74HC4049	Hex Buffer/Converter (Inverted)	16	M74HC4049B1R	M74HC4049M1R	M74HC4049RM13TR
74HC4050	Hex Buffer/Converter	16	M74HC4050B1R	M74HC4050M1R	M74HC4050RM13TR
74HC4051	Single 8-Channel Analog Multiplexer/Demultiplexer	16	M74HC4051B1R	M74HC4051M1R	M74HC4051RM13TR
74HC4052	Dual 4-Channel Analog Multiplexer/Demultiplexer	16	M74HC4052B1R	M74HC4052M1R	M74HC4052RM13TR
74HC4053	Triple 4-Channel Analog Multiplexer/Demultiplexer	16	M74HC4053B1R	M74HC4053M1R	M74HC4053RM13TR
74HC4060	14-Stage Binary Counter/Oscillator	16	M74HC4060B1R	M74HC4060M1R	M74HC4060RM13TR
74HC4066	Quad Bilateral Switch	14	M74HC4066B1R	M74HC4066M1R	M74HC4066RM13TR
74HC4072	Dual 4-Input OR Gate	14	M74HC4072B1R	M74HC4072M1R	M74HC4072RM13TR
74HC4075	Triple 3-Input OR Gate	14	M74HC4075B1R	M74HC4075M1R	M74HC4075RM13TR
74HC4078	8-Input NOR/OR Gate	14	M74HC4078B1R	M74HC4078M1R	M74HC4078RM13TR
74HC4094	8-Bit SIPO Shift Register Latch (3-State)	16	M74HC4094B1R	M74HC4094M1R	M74HC4094RM13TR
74HC4316	Quad Bilateral Switches	16	M74HC4316B1R	M74HC4316M1R	M74HC4316RM13TR
74HC4511	BCD to 7-Segment L/D/D (LED)	16	M74HC4511B1R	M74HC4511M1R	M74HC4511RM13TR
74HC4514	4 to 16 Line Decoder Latch	24	M74HC4514B1R	M74HC4514M1R	M74HC4514RM13TR
74HC4518	Dual Decade Counter	16	M74HC4518B1R	M74HC4518M1R	M74HC4518RM13TR
74HC4520	Dual 4-Bit Binary Counter	16	M74HC4520B1R	M74HC4520M1R	M74HC4520RM13TR
74HC4538	Dual Monostable Multivibrator	16	M74HC4538B1R	M74HC4538M1R	M74HC4538RM13TR
74HC4543	BCD to 7-Segment L/D/D (LCD)	16	M74HC4543B1R	M74HC4543M1R	M74HC4543RM13TR
74HCT7007	Hex Buffer	14	M74HCT7007B1R	M74HCT7007M1R	M74HCT7007RM13TR
74HCT7259	8-Bit Addressable Latch/Decoder/Relays Driver (Open Drain, Inverting Output)	16	M74HCT7259B1R	M74HCT7259M1R	M74HCT7259RM13TR
74HC7266	Quad Exclusive NOR Gate	14	M74HC7266B1R	M74HC7266M1R	M74HC7266RM13TR
74HC40103	8-Bit Binary Programmable Down Counter	16	M74HC40103B1R	M74HC40103M1R	M74HC40103RM13TR

74AC/ACT Series ADVANCED HIGH SPEED CMOS

Recommended Operating Conditions

Parameter	Symbol	Value	Unit
Supply Voltage AC Series	V_{CC}	2 to 6	V
ACT Series		4.5 to 5.5	V
Input Voltage	V_I	0 to V_{CC}	V
Operating Temperature	T_A	- 40 to +85	C

Offers the following advantages over standard 74HC/HCT :

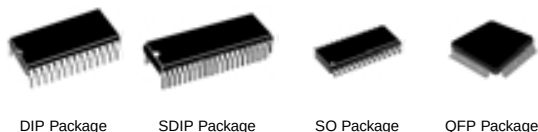
- Faster switching speed
- Lower power consumption
- Higher output current

Type	Function	Pins	Device No. & Anglia Order Code		
			Through Hole	Surface Mount	
			DIP package Tube	 Stick	 Tape & Reel
74AC00	Quad 2-Input NAND Gate	14	74AC00B	74AC00M	74AC00MTR
74ACT00	Quad 2-Input NAND Gate	14	74ACT00B	74ACT00M	74ACT00MTR
74AC02	Quad 2-Input NOR Gate	14	74AC02B	74AC02M	74AC02MTR
74ACT02	Quad 2-Input NOR Gate	14	74ACT02B	74ACT02M	74ACT02MTR
74AC04	Hex Inverter	14	74AC04B	74AC04M	74AC04MTR
74ACT04	Hex Inverter	14	74ACT04B	74ACT04M	74ACT04MTR
74AC08	Quad 2-Input AND Gate	14	74AC08B	74AC08M	74AC08MTR
74ACT08	Quad 2-Input AND Gate	14	74ACT08B	74ACT08M	74ACT08MTR
74AC14	Hex Schmitt Inverter	14	74AC14B	74AC14M	74AC14MTR
74AC32	Quad 2-Input OR Gate	14	74AC32B	74AC32M	74AC32MTR
74ACT32	Quad 2-Input OR Gate	14	74ACT32B	74ACT32M	74ACT32MTR
74AC74	Dual D-Type Flip-Flop with Preset and Clear	14	74AC74B	74AC74M	74AC74MTR
74ACT74	Dual D-Type Flip-Flop with Preset and Clear	14	74ACT74B	74ACT74M	74ACT74MTR
74AC86	Quad Exclusive OR Gate	14	74AC86B	74AC86M	74AC86MTR
74ACT86	Quad Exclusive OR Gate	14	74ACT86B	74ACT86M	74ACT86MTR
74AC125	Quad Bus Buffer (3-State)	14	74AC125B	74AC125M	74AC125MTR
74ACT125	Quad Bus Buffer (3-State)	14	74ACT125B	74ACT125M	74ACT125MTR
74AC138	3 to 8 Line Decoder (Inverted)	16	74AC138B	74AC138M	74AC138MTR
74ACT138	3 to 8 Line Decoder (Inverted)	16	74ACT138B	74ACT138M	74ACT138MTR
74AC157	Quad 2-Channel Multiplexer	16	74AC157B	74AC157M	74AC157MTR
74ACT157	Quad 2-Channel Multiplexer	16	74ACT157B	74ACT157M	74ACT157MTR
74AC158	Quad 2-Channel Multiplexer	16	74AC158B	74AC158M	74AC158MTR
74AC161	Synchronous Presettable 4-Bit Counter	16	74AC161B	74AC161M	74AC161MTR
74AC174	Hex D-Type Flip-Flop with Clear	16	74AC174B	74AC174M	74AC174MTR
74ACT174	Hex D-Type Flip-Flop with Clear	16	74ACT174B	74ACT174M	74ACT174MTR
74AC240	Octal Bus Buffer (3-State/Inverted)	20	74AC240B	74AC240M	74AC240MTR
74ACT240	Octal Bus Buffer (3-State/Inverted)	20	74ACT240B	74ACT240M	74ACT240MTR
74AC244	Octal Bus Buffer (3-State)	20	74AC244B	74AC244M	74AC244MTR
74ACT244	Octal Bus Buffer (3-State)	20	74ACT244B	74ACT244M	74ACT244MTR
74AC245	Octal Bus Transceiver (3-State)	20	74AC245B	74AC245M	74AC245MTR
74ACT245	Octal Bus Transceiver (3-State)	20	74ACT245B	74ACT245M	74ACT245MTR
74AC257	Quad 2-Channel Multiplexer (3-State)	16	74AC257B	74AC257M	74AC257MTR
74ACT257	Quad 2-Channel Multiplexer (3-State)	16	74ACT257B	74ACT257M	74ACT257MTR
74AC273	Octal D-Type Flip-Flop with Clear	20	74AC273B	74AC273M	74AC273MTR
74ACT273	Octal D-Type Flip-Flop with Clear	20	74ACT273B	74ACT273M	74ACT273MTR
74AC373	Octal D-Type Latch (3-State)	20	74AC373B	74AC373M	74AC373MTR
74ACT373	Octal D-Type Latch (3-State)	20	74ACT373B	74ACT373M	74ACT373MTR
74AC374	Octal D-Type Flip-Flop (3-State)	20	74AC374B	74AC374M	74AC374MTR
74ACT374	Octal D-Type Flip-Flop (3-State)	20	74ACT374B	74ACT374M	74ACT374MTR
74AC541	Octal Bus Buffer (3-State)	20	-	74AC541M	74AC541MTR
74AC573	Octal D-Type Latch (3-State)	20	74AC573B	74AC573M	74AC573MTR
74ACT573	Octal D-Type Latch (3-State)	20	74ACT573B	74ACT573M	74ACT573MTR
74AC574	Octal D-Type Flip-Flop (3-State)	20	74AC574B	74AC574M	74AC574MTR
74ACT574	Octal D-Type Flip-Flop (3-State)	20	74ACT574B	74ACT574M	74ACT574MTR

ST6

One Time Programmable (OTP) Devices

A family of single chip 8-bit CMOS microcontrollers which offer an ideal entry into embedded design. Combines economy and performance with very high noise immunity and a wide range of on-chip peripherals. One time programmable (OTP) devices are listed together with UV erasable (EPROM) versions for development purposes. For high volume production, FASTROM and ROM products are available.



									Device No. & Anglia Order Code		
OTP Type	Program ROM (Bytes)	Data RAM (Bytes)	EEPROM (Bytes)	A/D Inputs 8-bit	Timers 8-bit	Serial Interface	I/Os (High Current)	Through Hole Tube	Package & Pins	Surface Mount Stick SMD	Package & Pins
ST620X, ST621X, ST622X • ADC (except 03/08) •											
ST62T00C	1K	64	—	4	1	—	9 (3)	ST62T00CB6	DIP16	ST62T00CM6	SO16
ST62T01C	2K	64	—	4	1	—	9 (3)	ST62T01CB6	DIP16	ST62T01CM6	SO16
ST62T03C	1K	64	—	—	1	—	9 (3)	ST62T03CB6	DIP16	ST62T03CM6	SO16
ST62T08C	1K	64	—	—	1	—	12 (4)	ST62T08CB6	DIP20	ST62T08CM6	SO20
ST62T09C	1K	64	—	4	1	—	12 (4)	ST62T09CB6	DIP20	ST62T09CM6	SO20
ST62T10C	2K	64	—	8	1	—	12 (4)	ST62T10CB6	DIP20	ST62T10CM6	SO20
ST62T15C	2K	64	—	16	1	—	20 (4)	ST62T15CB6	DIP28	ST62T15CM6	SO28
ST62T18C	8K	192	—	7	1 + 1AR	UART	12 (8)	ST62T18CB6	DIP20	ST62T18CM6	SO20
ST62T20C	4K	64	—	8	1	—	12 (4)	ST62T20CB6	DIP20	ST62T20CM6	SO20
ST62T25C	4K	64	—	16	1	—	20 (4)	ST62T25CB6	DIP28	ST62T25CM6	SO28
ST62T28C	8K	192	—	12	1 + 1AR	SPI + UART	20 (8)	ST62T28CB6	DIP28	ST62T28CM6	SO28
Additional Features : Watchdog, ADC, direct LED or Triac driving via high current I/O's, LVD, Internal Oscillator, OSG											

ST623X • ADC • EEPROM • SPI • UART • PWM •											
ST62T30B	8K	192	128	16	1 + 1AR(16-bit)	SPI + UART	20 (4)	ST62T30BB6	DIP28	ST62T30BM6	SO28
ST62T32B	8K	192	128	21	1 + 1AR(16-bit)	SPI + UART	30 (9)	ST62T32BB6	SDIP42	—	—
Additional Features : Watchdog, ADC, direct LED or Triac driving via high current I/O's, Internal Oscillator, OSG, Auto-reload Timer for CAPCOM and PWM											

ST624X • ADC • EEPROM • SPI • LCD •											
27 x 4 LCD Segment											
ST62T46B	4K	140	128	8	2	SPI	20 (4)	ST62T46BB6	SDIP56	—	—
40 x 4 LCD Segment											
ST62T42B	8K	216	128	6	2	SPI	18 (4)	—	—	ST62T42BQ6	QFP64
45 x 4 LCD Segment											
ST62T40B	8K	216	128	12	2	SPI	24 (4)	—	—	ST62T40BQ6	QFP80
Additional Features : Watchdog, ADC, direct LED or Triac driving via high current I/O's, PSS, 32kHz Oscillator, LCD Driver											

ST625X, ST626X • ADC • EEPROM (except 5X) • SPI • PWM •											
ST62T52C	2K	128	—	4	1 + 1AR	—	9 (5)	ST62T52CB6	DIP16	ST62T52CM6	SO16
ST62T53C	2K	128	—	7	1 + 1AR	SPI	13 (6)	ST62T53CB6	DIP20	ST62T53CM6	SO20
ST62T55C	4K	128	—	13	1 + 1AR	SPI	21 (8)	ST62T55CB6	DIP28	ST62T55CM6	SO28
ST62T60C	4K	128	128	7	1 + 1AR	SPI	13 (6)	ST62T60CB6	DIP20	ST62T60CM6	SO20
ST62T62C	2K	128	64	4	1 + 1AR	—	9 (5)	ST62T62CB6	DIP16	ST62T62CM6	SO16
ST62T63C	2K	128	64	7	1 + 1AR	SPI	13 (6)	ST62T63CB6	DIP20	ST62T63CM6	SO20
ST62T65C	4K	128	128	13	1 + 1AR	SPI	21 (8)	ST62T65CB6	DIP28	ST62T65CM6	SO28
Additional Features : Watchdog, ADC, direct LED or Triac driving via high current I/O's, Internal Oscillator, OSG, Auto-reload Timer for CAPCOM and PWM											

N.B. SSOP package is also available on certain OTP devices - please contact our Sales Desk for details.

ST6

UV Erasable (EPROM) Devices

A range of re-programmable EPROM's designed to reduce the amount of devices required for development, debugging and prototyping. Each EPROM features the maximum memory size and peripherals of the relevant OTP versions.



DIP (UV)
Package



SDIP (UV)
Package



QFP (UV)
Package

OTP Versions Covered	UV Type	Device No. & Anglia Order Code			
		Through Hole	Package & Pins	Surface Mount SMD	Package & Pins
ST62T00C, ST62T01C, ST62T03C	ST62E01C	ST62E01CF1	DIP16	—	—
ST62T08C, ST62T09C, ST62T10C, ST62T20C	ST62E20C	ST62E20CF1	DIP20	—	—
ST62T15C, ST62T25C	ST62E25C	ST62E25CF1	DIP28	—	—
ST62T18C	ST62E18C	ST62E18CF1	DIP20	—	—
ST62T28C	ST62E28C	ST62E28CF1	DIP28	—	—
ST62T30B	ST62E30B	ST62E30BF1	DIP28	—	—
ST62T32B	ST62E32B	ST62E32BF1	SDIP42	—	—
ST62T40B	ST62E40B	—	—	ST62E40BG1	QFP80
ST62T42B	ST62E42B	—	—	ST62E42BG1	QFP64
ST62T46B	ST62E46B	ST62E46BF1	SDIP56	—	—
ST62T52C, ST62T62C	ST62E62C	ST62E62CF1	DIP16	—	—
ST62T53C, ST62T60C, ST62T63C	ST62E60C	ST62E60CF1	DIP20	—	—
ST62T55C, ST62T65C	ST62E65C	ST62E65CF1	DIP28	—	—



• Development Tools

Please contact our Applications Engineering team for details on Starter & Development Kits, Programmers and ST6 Emulators.



Written and developed by Anglia, the IDEaliST is a software package designed to consolidate access to all ST6 and ST7 programming software into one easy front end application. Please contact our Applications Engineering team for further details.



ST62 – Let Anglia help you plan your route from design to volume production

ST7

One Time Programmable (OTP) Devices

Providing a combination of leading system design and outstanding quality, the ST7 family offers significant benefits to both industrial and consumer applications. Based upon industry standard 8-bit architecture enhanced for high-level language programming, the ST7 is available with a wide range of on-chip peripherals. One Time Programmable (OTP) devices are listed together with UV erasable (EPROM) versions for development purposes. For high volume production, FASTROM and ROM products are available.



SDIP Package



SO Package



TQFP Package

								Device No. & Anglia Order Code			
OTP Type	Program ROM (Bytes)	Data RAM (Bytes)	EEPROM (Bytes)	A/D Inputs 8-bit	Timers 8-bit	Serial Interface	I/Os (High Current)	Through Hole Tube	Package & Pins	Surface Mount Stick 	Package & Pins
ST72101/121 • SPI • SCI* • LVD* •											
ST72T101G1	4K	256	—	—	1	SPI	22 (4)	ST72T101G1B6	SDIP32	ST72T101G1M6	SO28
ST72T101G2	8K	256	—	—	1	SPI	22 (4)	ST72T101G2B6	SDIP32	ST72T101G2M6	SO28
ST72T121J2*	8K	384	—	—	2	SPI + SCI	32 (4)	ST72T121J2B6	SDIP42	ST72T121J2T6	TQFP44
ST72T121J4*	16K	512	—	—	2	SPI + SCI	32 (4)	ST72T121J4B6	SDIP42	ST72T121J4T6	TQFP44
ST72T121J2S**	8K	384	—	—	2	SPI + SCI	32 (4)	ST72T121J2B6S	SDIP42	ST72T121J2T6S	TQFP44
ST72T121J4S**	16K	512	—	—	2	SPI + SCI	32 (4)	ST72T121J4B6S	SDIP42	ST72T121J4T6S	TQFP44
ST72212/213 • ADC • SPI •											
ST72T212G2	8K	256	—	6	2	SPI	22 (4)	ST72T212G2B6	SDIP32	ST72T212G2M6	SO28
ST72T213G1	4K	256	—	6	1	SPI	22 (4)	ST72T213G1B6	SDIP32	ST72T213G1M6	SO28
ST72311 • ADC • SPI • SCI • PWM • LVD* •											
ST72T311J2	8K	384	—	6	2	SPI + SCI	32 (4)	ST72T311J2B6	SDIP42	ST72T311J2T6	TQFP44
ST72T311J4	16K	512	—	6	2	SPI + SCI	32 (4)	ST72T311J4B6	SDIP42	ST72T311J4T6	TQFP44
ST72T311J2S*	8K	384	—	6	2	SPI + SCI	32 (4)	ST72T311J2B6S	SDIP42	ST72T311J2T6S	TQFP44
ST72T311J4S*	16K	512	—	6	2	SPI + SCI	32 (4)	ST72T311J4B6S	SDIP42	ST72T311J4T6S	TQFP44
ST72T311N2	8K	384	—	8	2	SPI + SCI	44 (4)	ST72T311N2B6	SDIP56	ST72T311N2T6	TQFP64
ST72T311N4	16K	512	—	8	2	SPI + SCI	44 (4)	ST72T311N4B6	SDIP56	ST72T311N4T6	TQFP64
ST72T311N6	32K	1024	—	8	2	SPI + SCI	44 (4)	ST72T311N6B6	SDIP56	ST72T311N6T6	TQFP64
ST72T311N2S*	8K	384	—	8	2	SPI + SCI	44 (4)	ST72T311N2B6S	SDIP56	ST72T311N2T6S	TQFP64
ST72T311N4S*	16K	512	—	8	2	SPI + SCI	44 (4)	ST72T311N4B6S	SDIP56	ST72T311N4T6S	TQFP64
ST72331 • ADC • EEPROM • SPI • SCI • LVD* •											
ST72T331J2	8K	384	256	6	2	SPI + SCI	32 (4)	ST72T331J2B6	SDIP42	ST72T331J2T6	TQFP44
ST72T331J4	16K	512	256	6	2	SPI + SCI	32 (4)	ST72T331J4B6	SDIP42	ST72T331J4T6	TQFP44
ST72T331J2S*	8K	384	256	6	2	SPI + SCI	32 (4)	ST72T331J2B6S	SDIP42	ST72T331J2T6S	TQFP44
ST72T331J4S*	16K	512	256	6	2	SPI + SCI	32 (4)	ST72T331J4B6S	SDIP42	ST72T331J4T6S	TQFP44
ST72T331N2	8K	384	256	8	2	SPI + SCI	44 (4)	ST72T331N2B6	SDIP56	ST72T331N2T6	TQFP64
ST72T331N4	16K	512	256	8	2	SPI + SCI	44 (4)	ST72T331N4B6	SDIP56	ST72T331N4T6	TQFP64
ST72T331N6	32K	1024	256	8	2	SPI + SCI	44 (4)	ST72T331N6B6	SDIP56	ST72T331N6T6	TQFP64
ST72T331N2S*	8K	384	256	8	2	SPI + SCI	44 (4)	ST72T331N2B6S	SDIP56	ST72T331N2T6S	TQFP64
ST72T331N4S*	16K	512	256	8	2	SPI + SCI	44 (4)	ST72T331N4B6S	SDIP56	ST72T331N4T6S	TQFP64
ST72251 • ADC • I²C • SPI •											
ST72T251G1	4K	256	—	6	2	I²C + SPI	22 (8)	ST72T251G1B6	SDIP32	ST72T251G1M6	SO28
ST72T251G2	8K	256	—	6	2	I²C + SPI	22 (8)	ST72T251G2B6	SDIP32	ST72T251G2M6	SO28
ST72272/371/372 • ADC • DAC • I²C • SCI* • PWM •											
ST72T272K2	8K	384	—	4	1	I²C	24 (4)	ST72T272K2B6	SDIP32	ST72T272K2M6	SO34
ST72T272K4	16K	512	—	4	1	I²C	24 (4)	ST72T272K4B6	SDIP32	ST72T272K4M6	SO34
ST72T372J4	16K	512	—	4	1	I²C	30 (6)	ST72T372J4B6	SDIP42	ST72T372J4T6	TQFP44
ST72T371N4*	16K	512	—	8	1	I²C + SCI	39 (8)	ST72T371N4B6	SDIP56	ST72T371N4T6	TQFP64
ST72512 • ADC • SPI • CAN •											
ST72T512N2	8K	384	—	8	1	SPI	44 (8)	ST72T512N2B6	SDIP56	ST72T512N2T6	TQFP64

ST7

One Time Programmable (OTP) Devices

continued

								Device No. & Anglia Order Code			
OTP Type	Program ROM (Bytes)	Data RAM (Bytes)	EEPROM (Bytes)	A/D Inputs 8-bit	Timers 16-bit	Serial Interface	I/Os (High Current)	Through Hole Tube	Package & Pins	Surface Mount Stick	Package & Pins
ST72511/531 • ADC • EEPROM [†] • SPI • SCI • PWM • CAN • LVD* •											
ST72T511R4	16K	512	—	8	2	SPI + SCI	48 (12)	—	—	ST72T511R4T6	TQFP64
ST72T511R6	32K	1024	—	8	2	SPI + SCI	48 (12)	—	—	ST72T511R6T6	TQFP64
ST72T511R9*	60K	2048	—	8	2	SPI + SCI	48 (12)	—	—	ST72T511R9T6	TQFP64
ST72T511R9S	60K	2048	—	8	2	SPI + SCI	48 (12)	—	—	ST72T511R9T6S	TQFP64
ST72T531R4 [†]	16K	512	256	8	2	SPI + SCI	44 (4)	—	—	ST72T531R4T6	TQFP64
ST72T531R6 [†]	32K	1024	256	8	2	SPI + SCI	44 (4)	—	—	ST72T531R6T6	TQFP64
ST72532 • ADC • EEPROM • SPI • CAN •											
ST72T532N2	8K	384	256	8	1	SPI	44 (4)	ST72T532N2B6	SDIP56	ST72T532N2T6	TQFP64
ST72671 • ADC • I ² C • SCI • PWM • USB •											
ST72T671N4	16K	512	—	8	1	I ² C+SCI+USB	34 (8)	ST72T671N4B6	SDIP56	ST72T671N4T6	TQFP64
ST72T671N6	32K	1024	—	8	1	I ² C+SCI+USB	34 (8)	ST72T671N6B6	SDIP56	ST72T671N6T6	TQFP64
ST72141 • ADC • SPI • SCI •											
ST72T141K2	8K	256	—	8	2	SPI + SCI	14 (3)	ST72T141K2B6	SDIP32	ST72T141K2M6	SO34
ST72254 • ADC • I ² C • SPI •											
ST72C254G1	4K	256	—	6	2	I ² C + SPI	22 (8)	ST72C254G1B6	SDIP32	ST72C254G1M6	SO28
ST72C254G2	8K	256	—	6	2	I ² C + SPI	22 (8)	ST72C254G2B6	SDIP32	ST72C254G2M6	SO28
ST72334 • ADC • EEPROM • SPI • SCI •											
ST72C334J2	8K	384	256	6	2	SPI + SCI	32 (8)	ST72C334J2B6	SDIP42	ST72C334J2T6	TQFP44
ST72C334J4	16K	512	256	6	2	SPI + SCI	32 (8)	ST72C334J4B6	SDIP42	ST72C334J4T6	TQFP44
ST72C334N2	8K	384	256	8	2	SPI + SCI	44 (12)	ST72C334N2B6	SDIP56	ST72C334N2T6	TQFP64
ST72C334N4	16K	512	256	8	2	SPI + SCI	44 (12)	ST72C334N4B6	SDIP56	ST72C334N4T6	TQFP64
ST7263X • ADC • I ² C • SCI • USB •											
ST72T633K1	4K	256	—	8	1	USB	19 (10)	ST72T633K1B1	SDIP32	ST72T633K1M1	SO34
ST72T632K2	8K	256	—	8	1	SCI + USB	19 (10)	ST72T632K2B1	SDIP32	ST72T632K2M1	SO34
ST72T631K4	16K	512	—	8	1	I ² C+SCI+USB	19 (10)	ST72T631K4B1	SDIP32	ST72T631K4M1	SO34

UV Erasable (EPROM) Devices

A range of re-programmable EPROM's designed to reduce the amount of devices required for development, debugging and prototyping. Each EPROM features the maximum memory size and peripherals of the relevant OTP versions.



SDIP (UV) Package

		Device No. & Anglia Order Code	
OTP Versions Covered	UV Type	Through Hole	Package & Pins
ST72T101G1, ST72T101G2	ST72E251G2	ST72E251G2D0	SDIP32
ST72T121J2, ST72T121J4	ST72E311J4	ST72E311J4D0	SDIP42
ST72T121J2S, ST72T121J4S	ST72E311J4S	ST72E311J4D0S	SDIP42
ST72T212G2, ST72T213G1	ST72E251G2	ST72E251G2D0	SDIP32
ST72T251G1, ST72T251G2	ST72E251G2	ST72E251G2D0	SDIP32
ST72T272K2, ST72T272K4	ST72E272K4	ST72E272K4D0	SDIP32
ST72T311J2, ST72T311J4	ST72E311J4	ST72E311J4D0	SDIP42
ST72T311J2S, ST72T311J4S	ST72E311J4S	ST72E311J4D0S	SDIP42
ST72T311N2, ST72T311N4	ST72E311N4	ST72E311N4D0	SDIP56
ST72T311N2S, ST72T311N4S	ST72E311N4S	ST72E311N4D0S	SDIP56
ST72T331J2, ST72T331J4	ST72E331J4	ST72E331J4D0	SDIP42
ST72T331J2S, ST72T331J4S	ST72E331J4S	ST72E331J4D0S	SDIP42
ST72T331N2, ST72T331N4	ST72E331N4	ST72E331N4D0	SDIP56
ST72T331N2S, ST72T331N4S	ST72E331N4S	ST72E331N4D0S	SDIP56
ST72T371N4	ST72E671N6	ST72E671N6D0	SDIP56
ST72141K2	ST72E141K2	ST72E141K2D0	SDIP32
ST72633K1, ST72632K2, ST72631K4	ST72E631K4	ST72E631K4D1	SDIP32

• Development Tools

Please contact our Applications Engineering team for details on Starter & Development Kits, Programmers and ST7 Emulators.



Written and developed by Anglia, the IDEalIST is a software package designed to consolidate access to all ST6 and ST7 programming software into one easy front end application. Please contact our Applications Engineering team for further details.

A broad range of leading edge memories created to fulfill the vast majority of applications. The range consists of UV and OTP EPROM's, serial EEPROM's (E²PROM) and FLASH memories up to 8Mb Non-volatile RAM's (NVRAM) with variants utilising Real Time Clock Functions and battery back-up (including surface mount versions with separate SNAPHAT[®] battery/crystal modules) complete the section.



FDIP Package



DIP Package



PLCC Package



SO Package

EPROM UV & OTP - 5V, CMOS

Size	Description	Prog.	Speed (ns)	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick SMD
64Kb	8Kb x 8	UV	100	FDIP28	M27C64A-10F1	—
		UV	150	FDIP28	M27C64A-15F1	—
256Kb	32Kb x 8	OTP	100	PLCC32	—	M27C256B-10C1
		OTP	120	DIP28/PLCC32	M27C256B-12B1	M27C256B-12C1
		OTP	150	DIP28/PLCC32	M27C256B-15B1	M27C256B-15C1
		UV	90	FDIP28	M27C256B-90F6	—
		UV	100	FDIP28	M27C256B-10F1	—
		UV	120	FDIP28	M27C256B-12F1	—
		UV	150	FDIP28	M27C256B-15F1	—
512Kb	64Kb x 8	OTP	90	PLCC32	—	M27C512-90C1
		OTP	100	PLCC32	—	M27C512-10C1
		OTP	120	PLCC32	—	M27C512-12C1
		OTP	150	PLCC32	—	M27C512-15C1
		UV	90	FDIP28	M27C512-90F1	—
		UV	100	FDIP28	M27C512-10F1	—
		UV	120	FDIP28	M27C512-12F1	—
		UV	150	FDIP28	M27C512-15F1	—
1Mb	128Kb x 8	OTP	70	PLCC32	—	M27C1001-70C1
		OTP	100	PLCC32	—	M27C1001-10C1
		OTP	120	PLCC32	—	M27C1001-12C1
		UV	70	FDIP32	M27C1001-70F1	—
		UV	100	FDIP32	M27C1001-10F1	—
		UV	120	FDIP32	M27C1001-12F1	—
2Mb	256Kb x 8	UV	100	FDIP32	M27C2001-10F1	—
		UV	120	FDIP32	M27C2001-12F1	—
		UV	150	FDIP32	M27C2001-15F1	—
4Mb	512Kb x 8	OTP	100	PLCC32	—	M27C4001-10C1
		OTP	120	PLCC32	—	M27C4001-12C1
		UV	100	FDIP32	M27C4001-10F1	—
		UV	120	FDIP32	M27C4001-12F1	—
	256Kb x 16	OTP	100	PLCC44	—	M27C4002-10C1
		OTP	120	PLCC44	—	M27C4002-12C1
		UV	100	FDIP40	M27C4002-10F1	—
		UV	120	FDIP40	M27C4002-12F1	—

8, 16 and 32Mb types also available. Please contact our Sales Desk for details.

EEPROM - Serial, Microwire

Size	Description	Operating Voltage (V)	Package	Device No. & Through Hole Tube	Anglia Order Code Surface Mount Stick SMD
256b	(32b x 8/16b x 16) 1MHz. 10ms Write	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93C06-WBN6 M93C06-BN6	M93C06-WMN6 M93C06-MN6
1Kb	(128b x 8/64b x 16) 1MHz. 10ms Write	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93C46-WBN6 M93C46-BN6	M93C46-WMN6 M93C46-MN6
	(128b x 8/64b x 16) 1MHz. 10ms Write, Write Protection	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93S46-WBN6 M93S46-BN6	M93S46-WMN6 M93S46-MN6
2Kb	(256b x 8/128b x 16) 1MHz. 10ms Write	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93C56-WBN6 M93C56-BN6	M93C56-WMN6 M93C56-MN6
	(256b x 8/128b x 16) 1MHz. 10ms Write, Write Protection	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93S56-WBN6 M93S56-BN6	M93S56-WMN6 M93S56-MN6
4Kb	(512b x 8/256b x 16) 1MHz. 10ms Write	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93C66-WBN6 M93C66-BN6	M93C66-WMN6 M93C66-MN6
	(512b x 8/256b x 16) 1MHz. 10ms Write, Write Protection	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93S66-WBN6 M93S66-BN6	M93S66-WMN6 M93S66-MN6
16Kb	(2Kb x 8/1Kb x 16) 1MHz. 10ms Write	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M93C86-WBN6 M93C86-BN6	M93C86-WMN6 M93C86-MN6

1.8 to 5.5V types also available. Please contact our Sales Desk for details.



DIP Package



SO Package



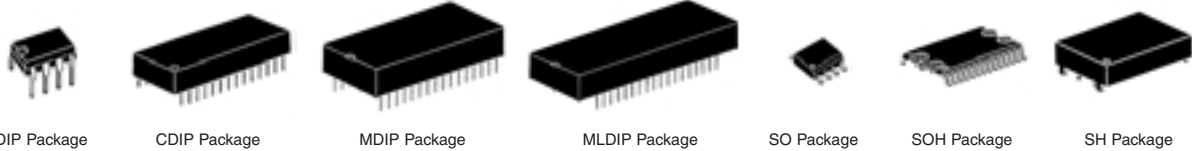
PLCC Package

EEPROM - Serial, I ² C Bus					
Size	Description	Operating Voltage (V)	Package	Device No. & Through Hole Tube	Order Code Surface Mount Stick 
1Kb	(128b x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C01-WBN6 M24C01-BN6	M24C01-WMN6 M24C01-MN6
2Kb	(256b x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C02-WBN6 M24C02-BN6	M24C02-WMN6 M24C02-MN6
4Kb	(512b x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C04-WBN6 M24C04-BN6	M24C04-WMN6 M24C04-MN6
8Kb	(1Kb x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C08-WBN6 M24C08-BN6	M24C08-WMN6 M24C08-MN6
16Kb	(2Kb x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C16-WBN6 M24C16-BN6	M24C16-WMN6 M24C16-MN6
32Kb	(4Kb x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C32-WBN6 M24C32-BN6	M24C32-WMN6 M24C32-MN6
64Kb	(8Kb x 8), 400kHz, 10ms Write, Write Control	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M24C64-WBN6 M24C64-BN6	M24C64-WMN6 M24C64-MN6

EEPROM - Serial SPI					
Size	Description	Operating Voltage (V)	Package	Device No. & Through Hole Tube	Order Code Surface Mount Stick 
8Kb	(1Kb x 8), 5MHz, 10ms Write, Write Protection, Positive Clock	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M95080-WBN6 M95080-BN6	M95080-WMN6 M95080-MN6
16Kb	(2Kb x 8), 5MHz, 10ms Write, Write Protection, Positive Clock	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M95160-WBN6 M95160-BN6	M95160-WMN6 M95160-MN6
32Kb	(4Kb x 8), 5MHz, 10ms Write, Write Protection, Positive Clock	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M95320-WBN6 M95320-BN6	M95320-WMN6 M95320-MN6
64Kb	(8Kb x 8), 5MHz, 10ms Write, Write Protection, Positive Clock	2.5 to 5.5 4.5 to 5.5	DIP8/SO8	M95640-WBN6 M95640-BN6	M95640-WMN6 M95640-MN6
256Kb	(32Kb x 8), 5MHz, 10ms Write, Write Protection, Positive Clock	2.5 to 5.5 4.5 to 5.5	DIP8/SO8W	M95256-WBN6 M95256-BN6	M95256-WMW6 M95256-MW6

Flash - 3V/5V							
Size	Description	Voltage (V)	Block Type	Speed (ns)	Package	Device No. & Through Hole Tube	Order Code Surface Mount Stick 
1Mb	64Kb x 16	3	Uniform	70 90	PLCC32	— —	M29W010B-70K1 M29W010B-90K1
	128Kb x 8	5	Uniform	70 90 120	DIP32/PLCC32	M29F010B-70P1 M29F010B-90P1 M29F010B-120P1	M29F010B-70K1 M29F010B-90K1 M29F010B-120K1
	128Kb x 8/64Kb x 16	5	Bottom Boot Top Boot	90 90	SO44 SO44	— —	M29F100BB-90M1 M29F100BT-90M1
2Mb	256Kb x 8/128Kb x 16	3	Bottom Boot	90	SO44	—	M29W200BB-90M1
	256Kb x 8	5	Bottom Boot Top Boot	70 90 120	PLCC32 DIP32/PLCC32	— — M29F002BT-70P1 M29F002BT-90P1 M29F002BT-120P1	M29F002BB-70K1 M29F002BB-90K1 M29F002BT-70K1 M29F002BT-90K1 M29F002BT-120K1
4Mb	512Kb x 8	3	Top Boot	90	SO44	—	M29W400BT-90M1
			Uniform	90 120	PLCC32	— —	M29W040B-90K1 M29W040B-120K1
		5	Uniform	70 90 120	PLCC32	— — —	M29F040B-70K1 M29F040B-90K1 M29F040B-120K1
	512Kb x 8/256Kb x 16	5	Bottom Boot	70 90 120	SO44	— — —	M29F400BB-70M1 M29F400BB-90M1 M29F400BB-120M1
			Top Boot	70 90	SO44	— —	M29F400BT-70M1 M29F400BT-90M1
		3	Bottom Boot	90 120	SO44	— —	M29W800AB-90M1 M29W800AB-120M1
Top Boot	90 120		SO44	— —	M29W800AT-90M1 M29W800AT-120M1		
8Mb	1Mb x 8/512Kb x 16	3	Bottom Boot	90 120	SO44	— —	M29W800AB-90M1 M29W800AB-120M1
			Top Boot	90 120	SO44	— —	M29W800AT-90M1 M29W800AT-120M1
		5	Bottom Boot	70 90	SO44	— —	M29F800AB-70M1 M29F800AB-90M1
			Top Boot	70 90	SO44	— —	M29F800AT-70M1 M29F800AT-90M1

16Mb types also available. Please contact our Sales Desk for details.



NVRAM - Timekeeper®						
Size	Description	Speed (ns)	Package	Device No. & Anglia Order Code		
				Through Hole Tube	 Surface Mount Stick	 Tape & Reel
8b	2V to 5V Real Time Clock, I²C Serial Bus, Y2K Compliant	—	SO8	—	M41T00M6	M41T00M6TR
512b	(64b x 8) Real Time Clock, 2V to 5V, I²C Serial Bus, Y2K Compliant	—	SO8	—	M41T11M6	M41T11M6TR
	(64b x 8) Real Time Clock, 5V +/-10%, I²C Serial Bus, Y2K Compliant	—	DIP8/SO8	—	M41T56M6	M41T56M6TR
	(64b x 8) Real Time Clock, 5V +/-10%, I²C Serial Bus	—	DIP8	MK41T56N00	—	—
16Kb	(2Kb x 8), 5V +10/-5%, Maximum 10 Year Battery	70	CDIP24	M48T02-70PC1	—	—
		150		M48T02-150PC1	—	—
		200		M48T02-200PC1	—	—
	(2Kb x 8), 5V +/-10%, Maximum 10 Year Battery	70	CDIP24	M48T12-70PC1	—	—
		150		M48T12-150PC1	—	—
		200		M48T12-200PC1	—	—
64Kb	(8Kb x 8), 5V +10/-5%, Max. 10 Year Battery, Power Fail Interrupt	100 150	CDIP28	M48T08-100PC1 M48T08-150PC1	— —	— —
	(8Kb x 8), 5V +/-10%, Max. 10 Year Battery*, Power Fail Interrupt	100 150	CDIP28/SOH28 CDIP28	M48T18-100PC1 M48T18-150PC1	M48T18-100MH1 —	— —
	(8Kb x 8), 5V +10/-5%, Maximum 7 Year Battery	70	CDIP28	M48T58-70PC1	—	—
	(8Kb x 8), 5V +/-10%, Maximum 7 Year Battery*	70	CDIP28/SOH28	M48T58Y-70PC1	M48T58Y-70MH1	—
	(8Kb x 8), 5V +10/-5%, Max. 7 Year Battery, Watchdog, Reset O/p, Alarm, Battery Low Flag	70	CDIP28	M48T59-70PC1	—	—
	(8Kb x 8), 5V +/-10%, Max. 7 Year Battery*, Watchdog, Reset O/p, Alarm, Battery Low Flag	70	CDIP28/SOH28	M48T59Y-70PC1	M48T59Y-70MH1	—
	(8Kb x 8), , 5V +/-10%, Max. 7 Year Battery*, Watchdog, Reset O/p, Alarm, Battery Low Flag, Add/Data M/Plex	—	SOH28	—	M48T559Y-MH1	—
	(32Kb x 8), 5V +10/-5%, Maximum 10 Year Battery	70	CDIP28	M48T35-70PC1	—	—
256Kb	(32Kb x 8), 5V +/-10%, Maximum 10 Year Battery	70	CDIP28/SOH28	M48T35Y-70PC1	M48T35Y-70MH1	—
	(512Kb x 8), 5V +/-10%, Maximum 10 Year Battery	70	MDIP32	M48T512Y-70PM1	—	—
NVRAM - Zeropower®						
Size	Description	Speed (ns)	Package	Device No. & Anglia Order Code		
				Through Hole Tube	 Surface Mount Stick	 Tape & Reel
16Kb	(2Kb x 8), V _{CC} /V _{PFD} +10,-5%, Maximum 10 Year Battery	70	CDIP24	M48Z02-70PC1	—	—
		150		M48Z02-150PC1	—	—
	(2Kb x 8), V _{CC} /V _{PFD} +/-10%, Maximum 10 Year Battery	70	CDIP24	M48Z12-70PC1	—	—
64Kb	(8Kb x 8), V _{CC} /V _{PFD} +10,-5%, Maximum 11 Year Battery	100	CDIP28	M48Z08-100PC1	—	—
	(8Kb x 8), V _{CC} /V _{PFD} +/-10%, Maximum 11 Year Battery*	100	CDIP28/SOH28	M48Z18-100PC1	M48Z18-100MH1	—
	(8Kb x 8), V _{CC} /V _{PFD} +10,-5%, Maximum 10 Year Battery	70	CDIP28	M48Z58-70PC1	—	—
	(8Kb x 8), V _{CC} /V _{PFD} +/-10%, Maximum 10 Year Battery*	70	CDIP28/SOH28	M48Z58Y-70PC1	M48Z58Y-70MH1	—
	(32Kb x 8), V _{CC} /V _{PFD} +10,-5%, Maximum 10 Year Battery	70	CDIP28	M48Z35-70PC1	—	—
256Kb	(32Kb x 8), V _{CC} /V _{PFD} +/-10%, Maximum 10 Year Battery*	70	SOH28	M48Z35Y-70PC1	M48Z35Y-70MH1	—
	1Mb	(128Kb x 8), V _{CC} /V _{PFD} +10,-5%, Maximum 10 Year Battery	70	MDIP32	M48Z128-70PM1	—
120			M48Z128-120PM1		—	—
(128Kb x 8), V _{CC} /V _{PFD} +/-10%, Maximum 10 Year Battery		70	MDIP32	M48Z128Y-70PM1	—	—
4Mb	(512Kb x 8), V _{CC} /V _{PFD} +10,-5%, Maximum 10 Year Battery	70	MDIP32	M48Z512A-70PM1	—	—
		85		M48Z512AY-70PM1	—	—
	(512Kb x 8), V _{CC} /V _{PFD} +/-10%, Maximum 10 Year Battery	70	MDIP32	M48Z512AY-85PM1	—	—
NVRAM - Ancillaries						
	Size	Description	Package	Device No. & Anglia Order Code		
					Surface Mount Stick	
1Mb to 4Mb		TIMEKEEPER® Controller (x8), 70ns, 5V +/-10%, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-Up, Push-Button Reset, Square Wave, Century, Y2K Compliant	SOH44	M48T201Y-70MH1		
		TIMEKEEPER® Controller (x8), 85ns, 3.3V +/-10%, Same Features as M48T201Y Above	SOH44	M48T201V-85MH1		
49mAh	130mAh	Lithium Battery for ZEROPOWER® & NVRAM Controllers	SH†	M4Z28BR00SH1		
				M4Z32BR00SH1		
49mAh		Lithium Battery and Crystal for M48T18 TIMEKEEPER® only	SH†	M4T18BR12SH1		
49mAh		Lithium Battery and Crystal for TIMEKEEPER® & TIMEKEEPER® Controllers	SH†	M4T28BR12SH1		
130mAh		excluding M48T18		M4T32BR12SH1		

* Separate SNAPHAT® battery/crystal module required for SOH versions

† For mounting to SNAPHAT® SOH package modules

WASHERS

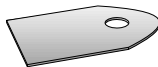


Economical, commercial grade **silicone rubber** insulating washers reinforced with glass fibre. Flame retardant to UL94V-0. Supplied specifically for the packages shown below. Colour - Grey.



TO220

Manf. Part No.	Anglia Order Code
50B220A	471138



TO3P/TO247

Manf. Part No.	Anglia Order Code
50B247A	471136



TO3

Manf. Part No.	Anglia Order Code
50B003A	471130

Commercial grade transparent **mica** insulating washers. Supplied specifically for the packages shown below.



TO220

Size	Manf. Part No.	Anglia Order Code
19 x 12.7mm	50A220A	471108
19 x 15mm	50A220B	471109



TO3P/TO247

Manf. Part No.	Anglia Order Code
50A247A	471106



TO3

Manf. Part No.	Anglia Order Code
50A003A	471100

BUSHES



Moulded insulating bushes for device (shoulder bush) or heatsink mounting. Supplied specifically for the packages shown below.



Size/Mounting

5.4mm dia., Insulating shoulder bush
6.05mm dia., Insulating shoulder bush
9.4mm dia., Heatsink mounting
5.46mm dia., Insulating shoulder bush
7.62 x 5.6mm, Insulating shoulder bush
6.1mm dia. x 1.3mm thick, Insulating shoulder bush
6.1mm dia. x 4.4mm thick, Insulating shoulder bush

Package

TO220/TO3P/TO247
TO220
TO220/TO3
TO220
TO220
TO3
TO3

Manf. Part No.

50A227B
52A220A
52B223A
7721-7PPS
7721-10PPS
52A003A
52A003C

Anglia Order Code

471128
471116
471104
7721-7PPS
7721-10PPS
471103
471118



AVID THERMALLOY

PADS



Moulded pads and bushes for insulating, spacing devices off the pcb or spreading the leads. Supplied specifically for the packages shown below.



Holes/Height

3 hole, 2.8mm height
3 hole, 3.7mm height
4 hole, 3.7mm height
3 hole, 0.5mm height
4 hole, 2.8mm height
4 hole, 3.2mm height

Package

TO92
TO92
TO92
TO5/TO39
TO5/TO39
TO18

Manf. Part No.

51B092A
51A092C
51A092D
51A539B
51A539A
51A018A

Anglia Order Code

473092
473094
473016
473007
473005
473018

INSULATOR KITS



Comprise of an insulating washer (choice of material) and bush(es).

Type

Silicone washer†
Mica washer
Silicone washer†
Mica washer

Package

TO220 (fixing hole)
TO220 (fixing hole)
TO3
TO3

Manf. Part No.

53B220A
53A220A
53B003A
53A003A

Anglia Order Code

471930
471908
471931
471909

† Warth version also available (see page 499). Please specify preferred supplier when ordering.

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

THERMAL INTERFACE MATERIALS

NEW

KOOL-PADS® KA150-2AC. Provides an efficient method of mounting heatsinks on to devices such as CPUs, DIL/SMT packages and other similar devices requiring effective transfer of generated heat. Highly conductive aluminium foil with adhesive applied to both sides negates the need for clips or any other form of mechanical fixing in applications where electrical isolation is **not** required. Supplied in 300 x 300mm sheets.

Specification

Thermal Resistance - 0.49°C/W
Thickness - 0.16mm
Colour - Grey



300 x 300mm Sheet

Manf.
Part No.

KA150-2AC-30X30

Anglia
Order Code
471953

KOOL-PADS® K177. Silicone rubber compound coated on to a layer of woven glass fibre, providing a strong and flexible insulator which will not crack, age or become contaminated. Flame retardant to UL94V-0. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.45°C/W
Thermal Conductivity - 0.79W/m-K
Voltage Breakdown - 3500Vrms
Thickness - 0.16mm
Colour - Grey



300 x 300mm Sheet

Non-adhesive

Manf.
Part No.

K177-NA-30X30

Anglia
Order Code
471938



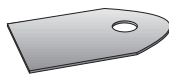
TO220

Non-adhesive
Adhesive coating
Non-adhesive,
clip mount (no hole)

Manf.
Part No.

K177-NA-353
K177-AC-353
K177-NA-819

Anglia
Order Code
471935
471939
471949



TO3P/TO247

Non-adhesive
Adhesive coating
Non-adhesive,
clip mount (no hole)

Manf.
Part No.

K177-NA-403
K177-AC-403
K177-NA-706

Anglia
Order Code
471936
471940
471950

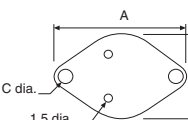


TO3

Non-adhesive
Non-adhesive
Adhesive coating

Size (mm)
A B C

40.5 28 3.9
42 29 3.8
42 29 3.8



TO3

Manf.
Part No.

K177-NA-032
K177-NA-065
K177-AC-065

Anglia
Order Code
471937A
471937
471941

KOOL-PADS® K200. Cost-effective, low thermal resistance insulating material. Coated glass fibre loaded with silicone compound. Flame retardant to UL94V-0. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.28°C/W
Thermal Conductivity - 1.3W/m-K
Voltage Breakdown - 1000Vrms
Thickness - 0.2mm
Colour - Light green



300 x 300mm Sheet

Non-adhesive

Manf.
Part No.

K200-NA-30X30

Anglia
Order Code
471945



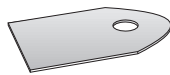
TO220

Non-adhesive
Adhesive coating
Non-adhesive,
clip mount (no hole)

Manf.
Part No.

K200-NA-353
K200-AC-353
K200-NA-819

Anglia
Order Code
471942
471946
471952



TO3P/TO247

Non-adhesive
Adhesive coating
Non-adhesive,
clip mount (no hole)

Manf.
Part No.

K200-NA-403
K200-AC-403
K200-NA-706

Anglia
Order Code
471943
471947
471951



TO3

Non-adhesive
Adhesive coating

Manf.
Part No.

K200-NA-065
K200-AC-065

Anglia
Order Code
471944
471948

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

THERMAL INTERFACE MATERIALS *continued*
NEW

KOOL-PADS® CM20. 98% graphite offering a dry alternative to thermal compounds. Designed for high power applications where electrical isolation is **not** required. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.07°C/W
Thermal Conductivity - 3.85W/m-K
Thickness - 0.2mm
Colour - Dark metallic



300 x 300mm Sheet



TO220

Non-adhesive,
clip mount (no hole)

Manf.
Part No.

CM20-NA-819

Anglia
Order Code
471961

Non-adhesive
Manf. Part No. CM20-NA-30X30

Anglia
Order Code
471957



TO3

Non-adhesive
Adhesive coating

Manf.
Part No.

 CM20-NA-213
CM20-AC-213

Anglia
Order Code
471956
471960



TO3P/TO247

Non-adhesive
Adhesive coating
Non-adhesive,
clip mount (no hole)

Manf.
Part No.

 CM20-NA-403
CM20-AC-403
CM20-NA-706

Anglia
Order Code
471955
471959
471962



TO202

Non-adhesive
Adhesive coating

Manf.
Part No.

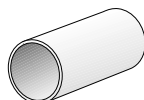
 CM20-NA-314
CM20-AC-314

Anglia
Order Code
471954
471958

THERMAFLEX® tube is designed to be slipped over the device before clip application. Gives good thermal performance and high levels of electrical isolation. Supplied specifically for the packages shown below.

Specification

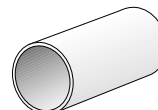
Thermal Resistance - 0.92°C/W
Thermal Conductivity - 1.6W/m-K
Colour - Grey



TO220

Manf. Part No. THER-T-SMALL

Anglia
Order Code
471969



TO3P/TO247

Manf. Part No. THER-T-LARGE

Anglia
Order Code
471970

CLIPS


Suitable for use with panels up to 1.2mm and pads up to 0.2mm thickness. Max. force = 5.5kg. Zinc plated with clear passivated finish.

Nylon coated gull wing clip for mounting **two** devices onto any panel or pad thickness. Max. force = 7.5kg/device. Gives up to 3500V isolation from transistor tab.

Gull wing clip designed for use with KOOL-PAD® K177/200-NA-819 on any panel. Max. force = 12kg. Zinc plated with clear passivated finish. Max. isolation 1000V from transistor tab.



Industry standard clip for retaining TO220 or similar devices to custom heatsinks.

Suitable for use with panels up to 2mm and pads up to 0.2mm thickness. Max. force = 10kg. Zinc plated with clear passivated finish.

Nylon coated gull wing clip for mounting **two** devices onto any panel or pad thickness. Max. force = 11kg/device. Gives up to 3500V isolation from transistor tab.

Gull wing clip designed for use with KOOL-PAD® K177/200-NA-706 on any panel. Max. force = 15kg. Zinc plated with clear passivated finish. Max. isolation 1000V from transistor tab.

Suitability

Manf.
Part No.

Anglia
Order Code

TO220

TSC802

471963

TO220

TSC607-NY

471965

TO220

TSC209-ZP

471967

TO220

CLP-101

CLP-101


TO3P/TO247

TSC903

471964

TO3P/TO247

TSC506-NY

471966

TO3P/TO247

TSC405-ZP

471968
INSULATOR KITS

Comprise of a silicone insulating washer and bush(es).

Suitability

Manf.
Part No.

Anglia
Order Code

TO220 (fixing hole)†

K177-353BQ2840

471930

TO3P only

K177-235BQ35

471933

TO3P/TO247

K177-872BQ35

471934

TO3†

K177-065BQ35

471931

TO126

K177-679BQ57

471932

† CEL version also available (see page 497).
Please specify preferred supplier when ordering.

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

THERMAL INTERFACE MATERIALS

NEW

HI-FLOW™ 105. "Phase change" polymer coated aluminium designed to replace grease as a thermal interface. For use in applications where electrical isolation is **not** required. At 65°C, Hi-Flow changes from solid and flows, ensuring total surface contact. Supplied with adhesive coating, in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.05°C/W
Thermal Conductivity - 0.9W/m-K
Colour - Black



100 x 100mm Sheet

Manf.
Part No.

105AC-100X100

Anglia
Order Code
471900



TO220

Manf.
Part No.

105AC-54

Anglia
Order Code
471901



TO247

Manf.
Part No.

105AC-104

Anglia
Order Code
471902

HI-FLOW™ 625. Film reinforced "phase change" material. At 65°C, the thermally conductive compound changes from solid and flows, ensuring total surface contact. For use in applications where good electrical isolation is required. Supplied with adhesive coating, in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.25°C/W
Thermal Conductivity - 0.8W/m-K
Voltage Breakdown - 4000Vrms
Colour - Light green



100 x 100mm Sheet

Manf.
Part No.

625AC-100X100

Anglia
Order Code
471903



TO220

Manf.
Part No.

625AC-54

Anglia
Order Code
471904



TO247

Manf.
Part No.

625AC-104

Anglia
Order Code
471905

Sil-Pad 900-S®. A material with high thermal conductivity, high breakdown voltage, low mounting pressure and reduced capacitive coupling. Supplied pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.2°C/W
Thermal Conductivity - 1.6W/m-K
Voltage Breakdown - 5500Vrms
Thickness - 0.23mm
Colour - Salmon



TO220

Manf.
Part No.

Fixing hole (illus.) SP900S-54
Clip mount (no hole) SP900S-43

Anglia
Order Code
471907
471906

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

THERMAL INTERFACE MATERIALS *continued***NEW**

Sil-Pad K-6®. Silicone elastomer coated, thermally conductive medium performance insulator. Puncture resistant with a high breakdown voltage. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.3°C/W
Thermal Conductivity - 1.1W/m-K
Voltage Breakdown - 6000Vrms
Thickness - 0.15mm
Colour - Blue/green



300 x 300mm Sheet

Manf.
Part No.

K6-300X300

Anglia
Order Code

471971



TO220

Manf.
Part No.

K6-54

Anglia
Order Code

471972



TO247

Manf.
Part No.

K6-104

Anglia
Order Code

471973

Sil-Pad K-10®. High performance insulator. Special film with filled silicone rubber construction giving excellent thermal characteristics and a high breakdown voltage. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.2°C/W
Thermal Conductivity - 1.3W/m-K
Voltage Breakdown - 6000Vrms
Thickness - 0.15mm
Colour - Beige



300 x 300mm Sheet

Manf.
Part No.

K10-300X300

Anglia
Order Code

471974



TO220

Manf.
Part No.

K10-54

Anglia
Order Code

471975



TO3P/TO247

Manf.
Part No.

K10-104

Anglia
Order Code

471976

Sil-Pad 2000®. High performance/high reliability insulator designed for demanding applications such as military, aerospace and high integrity commercial requirements. Specially filled silicone elastomer maximises thermal and dielectric performance and is capable of meeting or exceeding the requirements of high reliability packaging applications. Conforms to applicable military standards. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.2°C/W
Thermal Conductivity - 3.5W/m-K
Voltage Breakdown - 4000Vrms
Thickness - 0.38mm
Colour - White



150 x 150mm Sheet

Manf.
Part No.

SP2000-150x150

Anglia
Order Code

471977



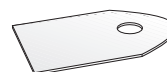
TO220

Manf.
Part No.

2015-54

Anglia
Order Code

471978



TO3P/TO247

Manf.
Part No.

2015-104

Anglia
Order Code

471979

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION

Bergquist Thermal Interface Materials
continued overleaf > > >



THERMAL INTERFACE MATERIALS

continued

NEW

Q-Pad 3®. Elastomer coated, glass fibre reinforced interface designed to conform to the clamping surface textures, creating an air free environment. The material offers good thermal characteristics in applications where electrical isolation is **not** required. Supplied with adhesive coating, in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.1°C/W
Thermal Conductivity - 1.6W/m-K
Thickness - 0.15mm
Colour - Black



300 x 300mm Sheet

Manf.
Part No.

Q3AC-300X300

Anglia
Order Code
471980



TO220

Size 18 x 12.7mm
Size 22 x 18.8mm

Manf.
Part No.

Q3AC-35
Q3AC-90

Anglia
Order Code
471982
471981



TO3

Manf.
Part No.

Q3AC-05

Anglia
Order Code
471983

Gap Pad V0™. Highly conformable interface manufactured from polymer on a glass fibre carrier. Available in a choice of thicknesses, the interface may be used in a wide variety of applications where surface textures vary, resulting in uneven spaces between mating areas. Supplied in sheets.

Specification

Thermal Conductivity - 0.8W/m-K
Voltage Breakdown - 6000Vrms
Colour - Yellow/pink



100 x 100mm Sheet

Thickness

1.5mm
2.0mm
3.2mm

Thermal Resistance

3.0°C/W
4.0°C/W
6.2°C/W

Manf. Part No.

GPD-1.5-100X100
GPD-2.0-100X100
GPD-3.2-100X100

Anglia
Order Code
471984
471985
471986

Gap Pad V0 Soft™. Recommended for low stress applications such as an interface where one side is in contact with a leaded device. Manufactured from polymer on a glass fibre carrier, the material is highly conformable in situations where uneven spaces between mating areas exist. Supplied in sheets and available in a choice of thicknesses.

Specification

Thermal Conductivity - 0.8W/m-K
Voltage Breakdown - 6000Vrms
Colour - Mauve/pink



100 x 100mm Sheet

Thickness

1.5mm
3.2mm
4.0mm

Thermal Resistance

3.0°C/W
6.2°C/W
8.0°C/W

Manf. Part No.

GPS-1.5-100X100
GPS-3.2-100X100
GPS-4.0-100X100

Anglia
Order Code
471987
471988
471994

Gap Pad™ 1500. High performance conformable polymer on a glass fibre carrier. Available in a choice of thicknesses, the interface finish gives good compliance to adjacent surfaces and may be used in a wide variety of applications where mating areas are uneven.

Specification

Thermal Conductivity - 1.5W/m-K
Voltage Breakdown - 6000Vrms
Colour - Pink



100 x 100mm Sheet

Thickness

1.5mm
3.2mm
4.0mm

Thermal Resistance

1.6°C/W
3.3°C/W
4.2°C/W

Manf. Part No.

GP1K5-1.5-100X100
GP1K5-3.2-100X100
GP1K5-4.0-100X100

Anglia
Order Code
471989
471990
471991

Gap Pad™ 2000. High performance, highly conductive conformable polymer on a glass fibre carrier with excellent compliance to adjacent surfaces. Choice of thicknesses make it suitable in a wide range of applications where mating areas are uneven.

Specification

Thermal Conductivity - 2.0W/m-K
Voltage Breakdown - 5000Vrms
Colour - Grey



100 x 100mm Sheet

Thickness

1.5mm
3.2mm

Thermal Resistance

1.1°C/W
2.5°C/W

Manf. Part No.

GP2K0-1.5-100X100
GP2K0-3.2-100X100

Anglia
Order Code
471992
471993

FOR SUITABLE HEATSINKS SEE HEATSINK SECTION