CMPSH-3A CMPSH-3C CMPSH-3S

SURFACE MOUNT SILICON SCHOTTKY DIODES



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3 series devices are silicon Schottky diodes designed for surface mount fast switching applications requiring a low forward voltage drop.



The following configurations are available:

CMPSH-3	SINGLE	MARKING CODE: D95
CMPSH-3A	DUAL, COMMON ANODE	MARKING CODE: DB1
CMPSH-3C	DUAL, COMMON CATHODE	MARKING CODE: DB2
CMPSH-3S	DUAL, IN SERIES	MARKING CODE: DA5

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	ΙF	100	mA
Peak Repetitive Forward Current	I _{FRM}	350	mA
Peak Forward Surge Current, tp=10ms	I _{FSM}	750	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ.ΙΔ	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

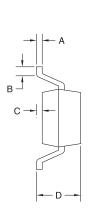
SYMBOL I _R	TEST CONDITIONS V _R =25V	MIN	TYP 90	MAX 500	UNITS nA
I_{R}	V _R =25V, T _A =100°C		25	100	μΑ
BV_R	I _R =100μA	30			V
V_{F}	I _F =2.0mA		0.29	0.33	V
V_{F}	I _F =15mA		0.37	0.45	V
V_{F}	I _F =100mA		0.51	1.00	V
CJ	$V_R=0$, f=1.0MHz			20	pF
t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=1.0$ mA, $R_L=100$ Ω			5.0	ns

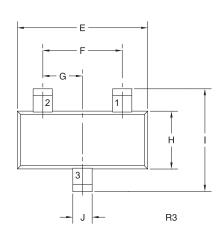
CMPSH-3 CMPSH-3A CMPSH-3C CMPSH-3S

SURFACE MOUNT SILICON **SCHOTTKY DIODES**



SOT-23 CASE - MECHANICAL OUTLINE

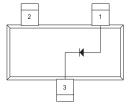


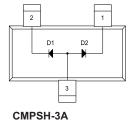


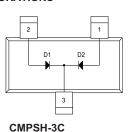
DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.003	0.007	0.08	0.18		
В	0.006	-	0.15	-		
С	-	0.005	-	0.13		
D	0.035	0.043	0.89	1.09		
Е	0.110	0.120	2.80	3.05		
F	0.075		1.90			
G	0.037		0.95			
Н	0.047	0.055	1.19	1.40		
	0.083	0.098	2.10	2.49		
J	0.014	0.020	0.35	0.50		

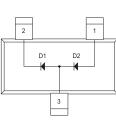
SOT-23 (REV: R3)

PIN CONFIGURATIONS









CMPSH-3

LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

LEAD CODE:

- 1) Cathode D2
- 2) Cathode D1
- 3) Anode D1, D2

LEAD CODE: 1) Anode D2

- 2) Anode D1
- 3) Cathode D1, D2

CMPSH-3S

LEAD CODE:

- 1) Anode D2
- 2) Cathode D1
- 3) Anode D1, Cathode D2

MARKING CODE: D95

MARKING CODE: DB1

MARKING CODE: DB2

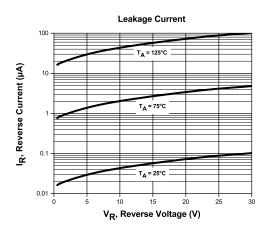
MARKING CODE: DA5

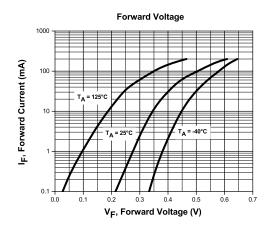
CMPSH-3A CMPSH-3C CMPSH-3S

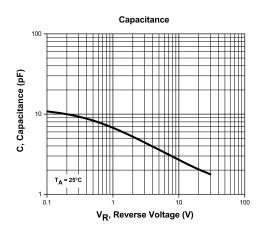
SURFACE MOUNT SILICON SCHOTTKY DIODES

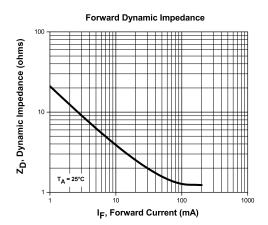


TYPICAL ELECTRICAL CHARACTERISTICS







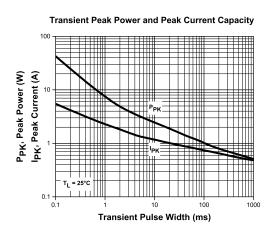


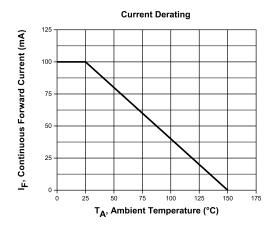
CMPSH-3A CMPSH-3C CMPSH-3S

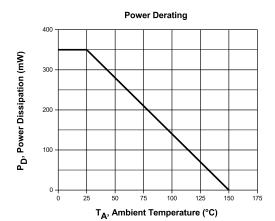




TYPICAL ELECTRICAL CHARACTERISTICS







OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)