

B340LA/B

SMB

Max

3.94

4.57

2.21

0.31

5.59

0.20

1.52

2.40

Min

3.30

4.06

1.96

0.15

5.00

0.10

0.76

2.00

3.0A LOW VF SCHOTTKY BARRIER RECTIFIER

Dim

Α

В

1

С

SMA

Max

2.92

4.60

1.63

0.31

5.59

0.20

1.52

2.30

Min

2.29

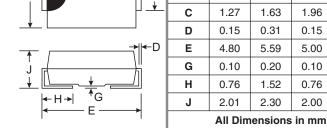
4.00

Features

- Very Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 70A Peak
- Lead Free/RoHS Compliant (Note 3)

Mechanical Data

- Case: SMA/SMB .
- Case Material: Molded Plastic. UL Flammability • Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking: See Last Page
- Approx. Weight: SMA 0.064 grams SMB 0.093 grams



В

"A" Suffix Designates SMA Package "B" Suffix Designates SMB Package

Maximum Ratings @ $T_A = 25^{\circ}C$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load unless otherwise noted. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current (Note 1) $T_T = 90^{\circ}C$	lo	3.0	А
Non-Repetitive Peak Forward Surge Current, single sine-wave superimposed on rated load, 60Hz	I _{FSM}	70	А
Operating and Storage Temperature Range	T _{j,} T _{STG}	-40 to +125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

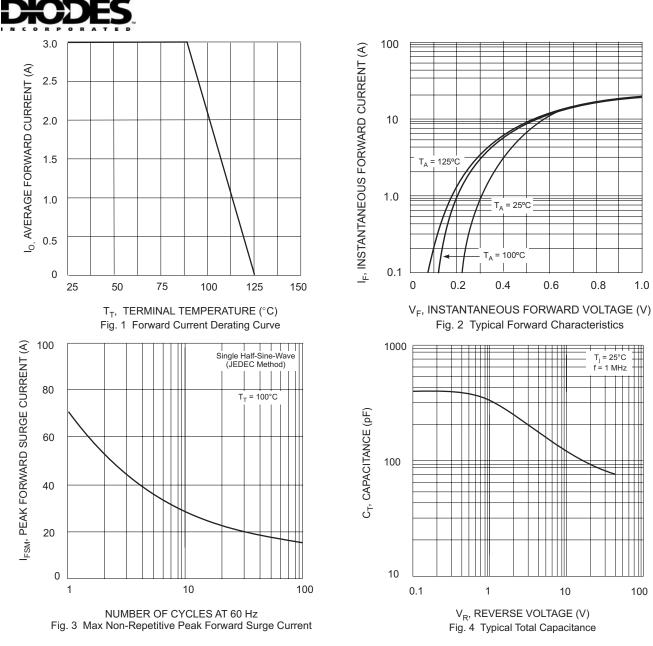
Characteristic	Symbol	Min	Тур	Мах	Unit	Conditions
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	_	_	_	I _R = 2.0mA
Forward Voltage Drop (Note 2)	V _F	_	0.310	0.350 0.450	V	I _F = 1.0A I _F = 3.0A
Leakage Current (Note 2)	I _R		_	150	uA	V _R = 15V
			_	1.0 2.0	mA	$V_{R} = 20V$ $V_{R} = 40V$
Total Capacitance	Ст	_	180		pF	$f = 1MHz, V_R = 4.0VDC$
Thermal Resistance, Junction to Terminal	R _{0JT}		25		°C/W	Mounted on alumina substrate

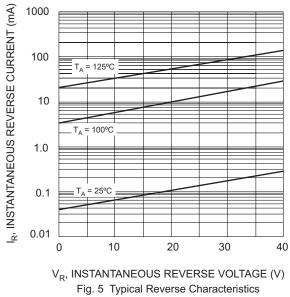
1. When mounted on alumina substrate, 180° half sine wave. Notes:

2. Short duration test pulse used to minimize self-heating effect.

^{3.} RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.









Ordering Information (Note 4)

Device	Packaging	Shipping
B340LA-13-F	SMA	5000/Tape & Reel
B340LB-13-F	SMB	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.



XXX = Product type marking code, ex: B34LA (SMA package) XXXX = Product type marking code, ex: B340LA (SMA package) XXX = Product type marking code, ex: B340LB (SMB package) XXXX = Product type marking code, ex: B340LB (SMB package) J'| = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52

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