

LITE-ON SEMICONDUCTOR

B3200B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 200 Volts FORWARD CURRENT - 3 Amperes

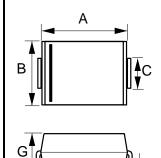
FEATURES

- · For surface mounted application
- · Metal-semiconductor junction with guard ring
- Epitaxial construction
- Very low forward voltage drop
- · High current capability
- Qualified according to JEDEC
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- · Package: Molded plastic
- Package Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free"
- · Polarity: Indicated by cathode band
- RoHS compliant
- Weight: 0.104 grams

SMB



SMB				
DIM	MIN	MAX		
Α	4.06	4.57		
В	3.30	3.94		
С	1.96	2.21		
D	0.15	0.31		
E	5.21	5.59		
F	0.05	0.20		
G	2.01	2.50		
Н	0.76	1.52		
All dimension in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

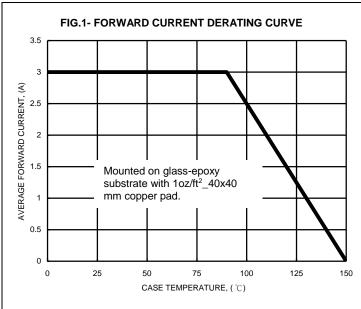
PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Rectified Output Current @T _C =90°C	I _(AV)	3.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	80	А
Maximum Forward Voltage at 3.0A DC	V _F	0.9	V
Maximum DC Reverse Current @T_=25°C at Rated DC Blocking Voltage @T_=100°C	I _R	0.2 5	mA
Typical Junction Capacitance (Note 4)	Ст	60	pF
Typical Thermal Resistance (Note 5)	RthJC _L	17	°C/W
Typical Thermal Resistance (Note 5)	RthJA _L	37	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

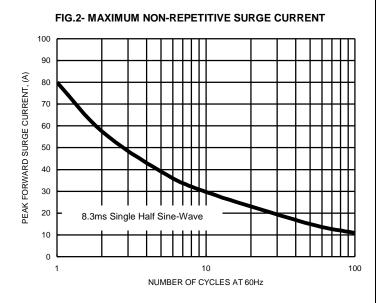
Notes:

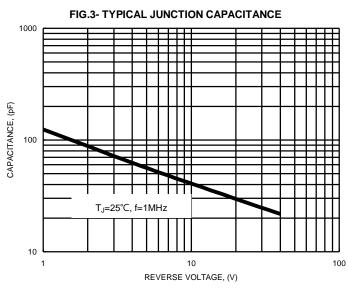
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Measured at 1.0MHz and applied voltage of 4.0V DC.
- 5. Unit mounted on glass epoxy substrate 1oz/ft2 40x40 mm copper pad.

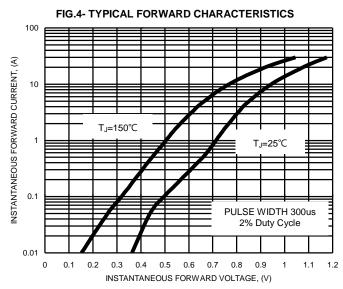


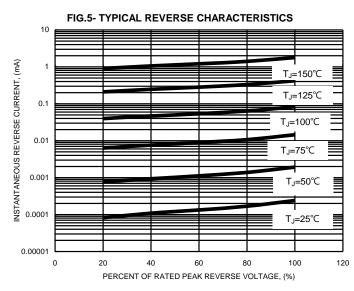
RATING AND CHARACTERISTIC CURVES B3200B









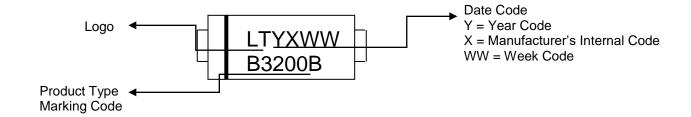




Ordering Information:

Part Number	Package	Packing	
		Qty.	Carrier
B3200B	SMB	3000	Tape & Reel

Marking Information:



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