

B320 thru B340

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 3.0 Amperes

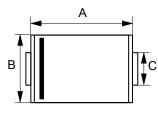
FEATURES

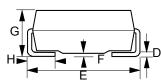
- For surface mounted application
- · Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- Very Low forward voltage drop
- · High current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)

MECHANICAL DATA

- · Case: Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- · Polarity: Color band denotes cathode
- · Weight: 0.007 ounces, 0.21 grams

<u>SMC</u>





SMC					
DIM.	MIN.	MAX.			
Α	6.60	7.11			
В	5.59	6.22			
С	2.92	3.18			
D	0.15	0.31			
E	7.75	8.13			
F	0.05	0.20			
G	2.01	2.50			
Н	0.76	1.52			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B320	B330	B340	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	٧
Maximum RMS Voltage	V _{RMS}	14	21	28	٧
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current @TL=100°C	I _{AV}	3.0			А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100			Α
Maximum Forward Voltage at 3.0A DC	V _F	0.5			V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	0.15 15			mA
Typical Junction Capacitance (Note 1)	Cj	230			pF
Typical Thermal Resistance (Note 2, 4)	R⊕ _{JL}	18			°C/W
Typical Thermal Resistance (Note 3, 4)	R⊕ _{JA}	60			°C/W
Operating Junction Temperature Range	Tj	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

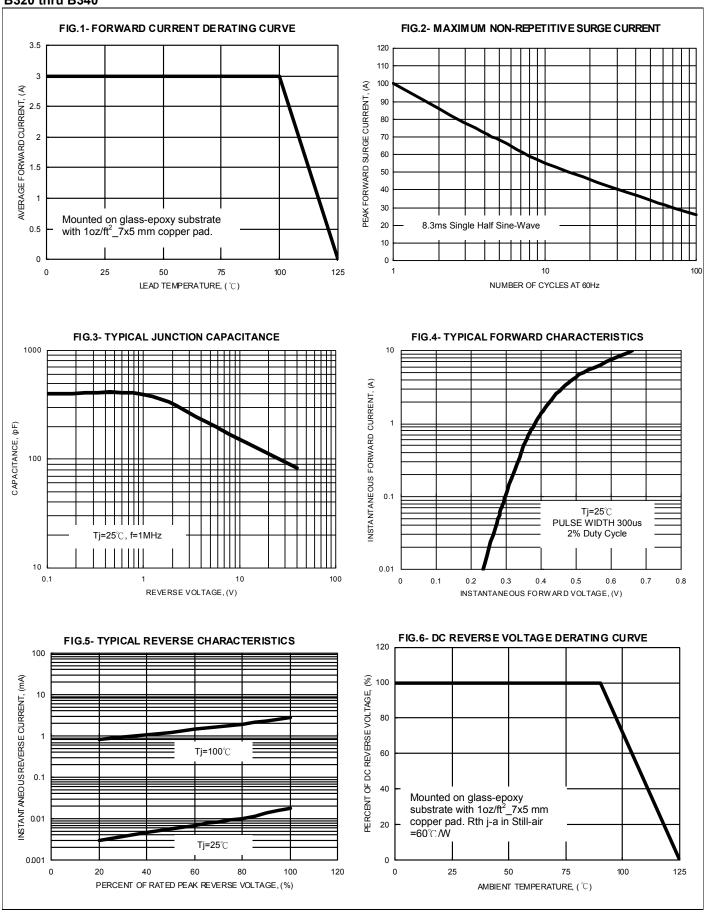
Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...

- (2) Thermal Resistance Junction to Lead
- (3) Thermal Resistance Junction to Ambient
- (4) Unit mounted on glass epoxy substrate 1oz/ft2 7x5 mm copper pad.

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RATING AND CHARACTERISTIC CURVES B320 thru B340







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