

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- For surface mounted application
- Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

MECHANICAL DATA

- · Case: Molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.003 ounces, 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B320B	B330B	B340B	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	А
Maximum Average Forward Rectified Current @TL=100°C	I _{AV}		3.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100			А
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	0.5 15			mA
Typical Junction Capacitance (Note 1)	Cj	210			pF
Typical Thermal Resistance (Note 2, 4)	R⊖ _{JL}	25			°C/W
Typical Thermal Resistance (Note 3, 4)	R⊖ _{JA}	95			°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				REV.3, Oct-2010, KSHB16	

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(2) Thermal Resistance Junction to Lead

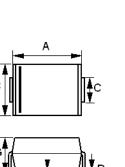
(3) Thermal Resistance Junction to Ambient

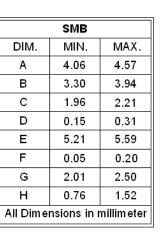
(4) Unit mounted on glass epoxy substrate 1oz/ft2 7x5 mm copper pad.

B320B thru B340B

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

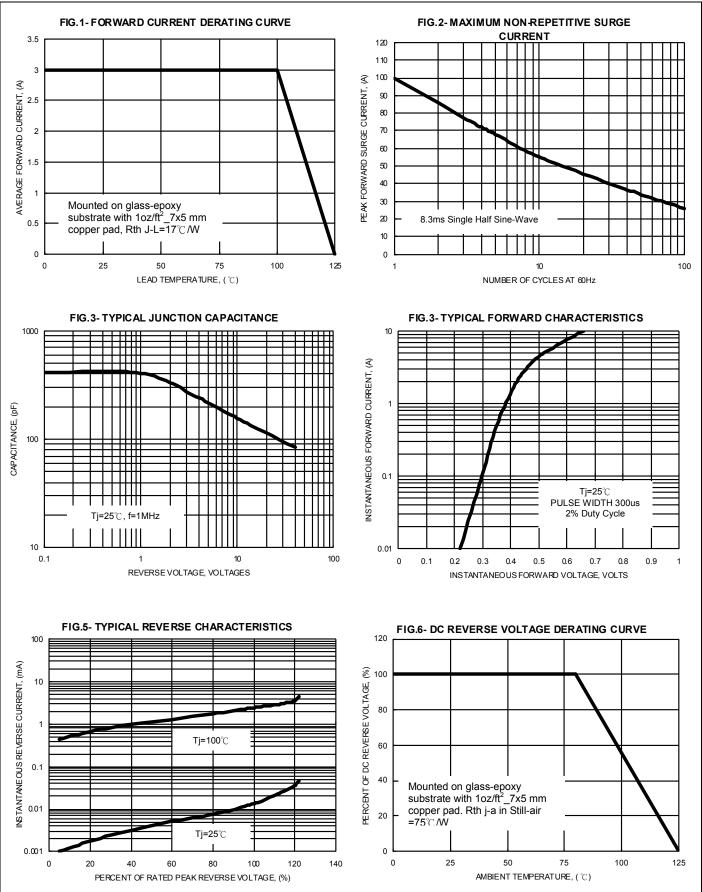
<u>SMB</u>





RATING AND CHARACTERISTIC CURVES B320B thru B340B

LITE<mark>ON</mark>





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