

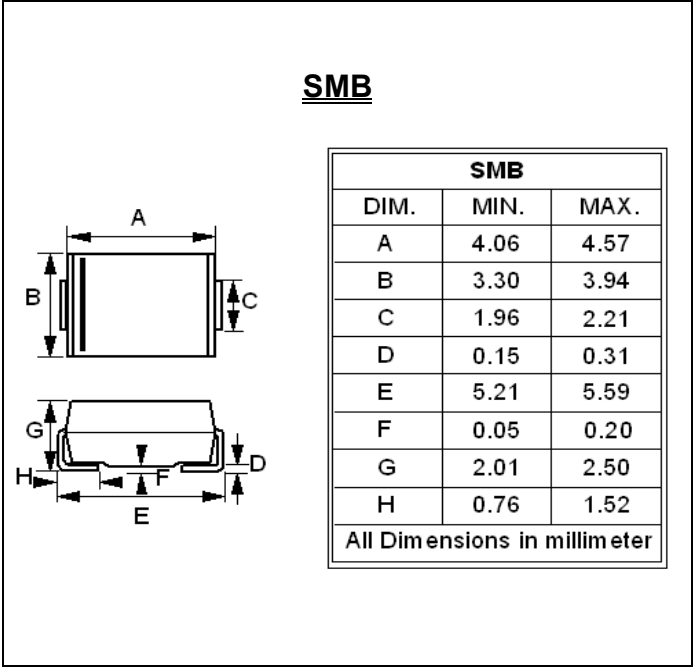
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE – 50 to 60 Volts FORWARD CURRENT – 3.0 Amperes
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FEATURES

- For surface mounted application
- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Qualified according to AEC-Q101 Rev_C
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

MECHANICAL DATA

- Case: Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free".
- 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	B350B	B360B	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	50	60	V
Maximum RMS Voltage	VRMS	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	V
Maximum Average Forward Rectified Current @TL=100°C	IAV	3.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	100		A
Maximum Forward Voltage at 3.0A DC	VF	0.7		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	IR	0.05 15		mA
Typical Junction Capacitance (Note 1)	Cj	180		pF
Typical Thermal Resistance (Note 2, 4)	RθJL	25		°C/W
Typical Thermal Resistance (Note 3, 4)	RθJA	95		°C/W
Operating Junction Temperature Range	Tj	-55 to +150		°C
Storage Temperature Range	TSTG	-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.

REV.-5, Sep-2019, KSHB17

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**RATING AND CHARACTERISTIC CURVES
B350B thru B360B**



FIG. 1- FORWARD CURRENT DERATING CURVE

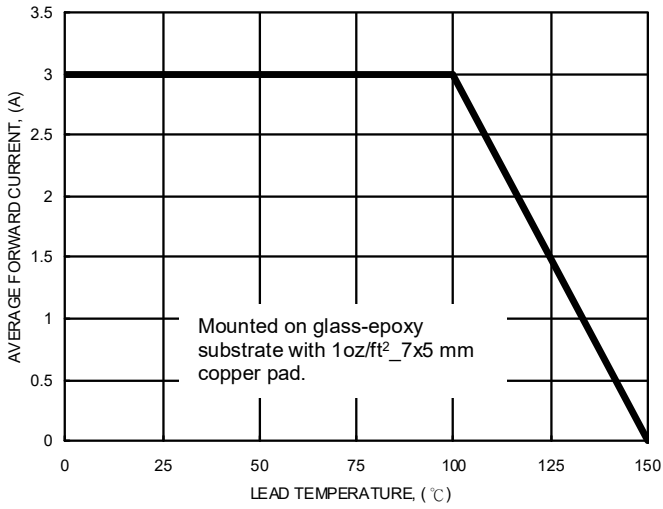


FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

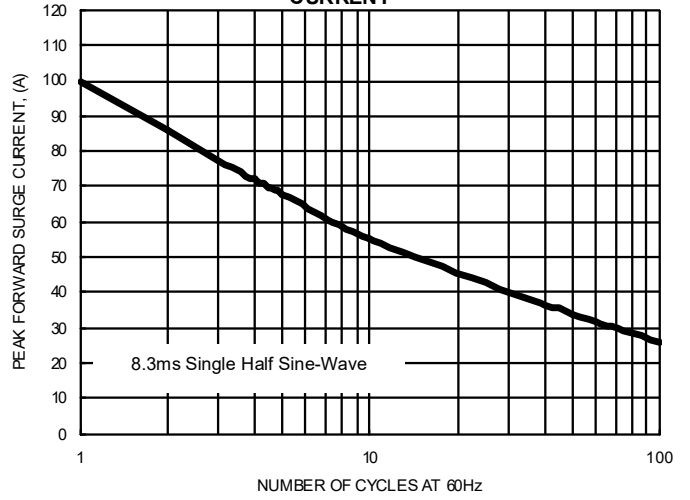


FIG. 3- TYPICAL JUNCTION CAPACITANCE

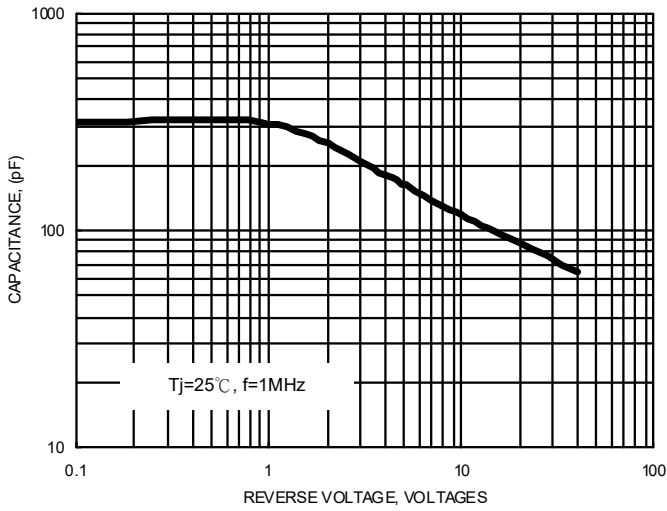


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

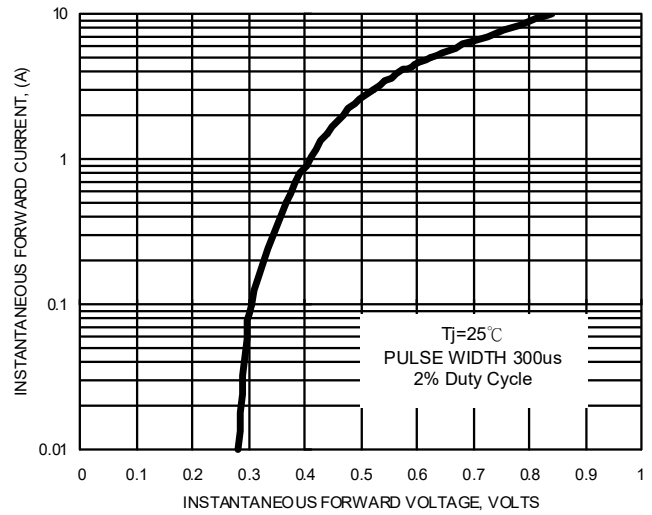


FIG. 5- TYPICAL REVERSE CHARACTERISTICS

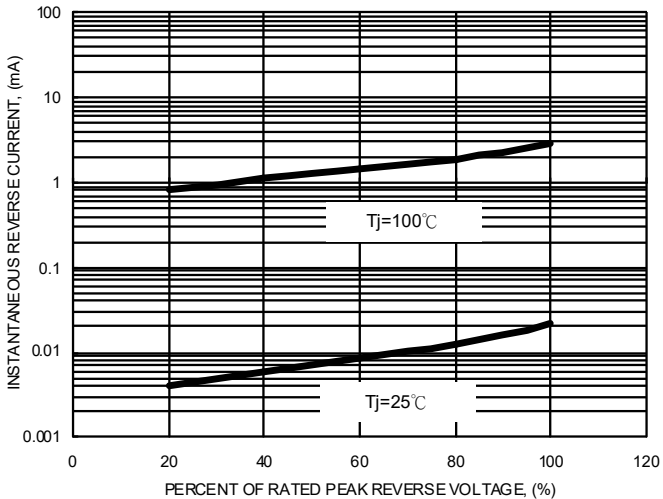
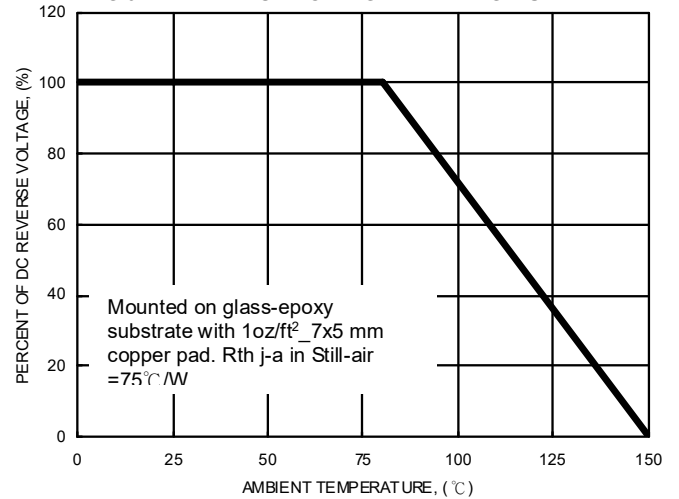


FIG. 6- DC REVERSE VOLTAGE DERATING CURVE



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