

**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

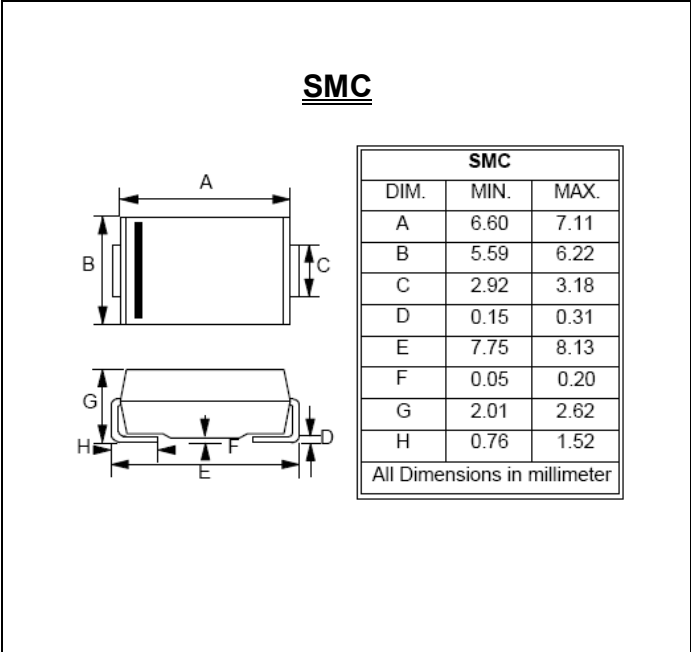
REVERSE VOLTAGE – 50 to 60 Volts
FORWARD CURRENT – 3.0 Amperes

FEATURES

- For surface mounted application
- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- 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: 0.007 ounces, 0.21 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	B350	B360	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	60	V
Maximum RMS Voltage	V_{RMS}	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	A
Maximum Average Forward Rectified Current @ $T_L=110^{\circ}C$	I_{AV}	3.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100		A
Maximum Forward Voltage at 3.0A DC	V_F	0.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_j=25^{\circ}C$ @ $T_j=100^{\circ}C$	I_R	0.5 15		mA
Typical Junction Capacitance (Note 1)	C_j	170		pF
Typical Thermal Resistance (Note 2, 4)	$R_{\theta JL}$	20		$^{\circ}C/W$
Typical Thermal Resistance (Note 3, 4)	$R_{\theta JA}$	60		$^{\circ}C/W$
Operating Junction Temperature Range	T_j	-55 to +150		$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150		$^{\circ}C$

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.

**RATING AND CHARACTERISTIC CURVES
B350 thru B360**



FIG. 1- FORWARD CURRENT DERATING CURVE

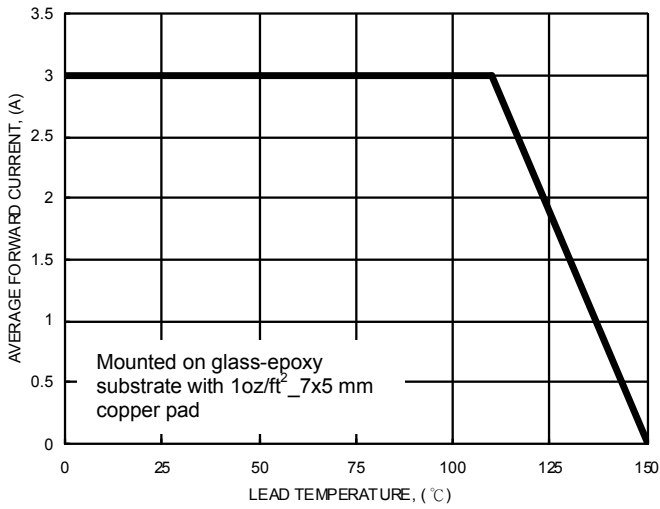


FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

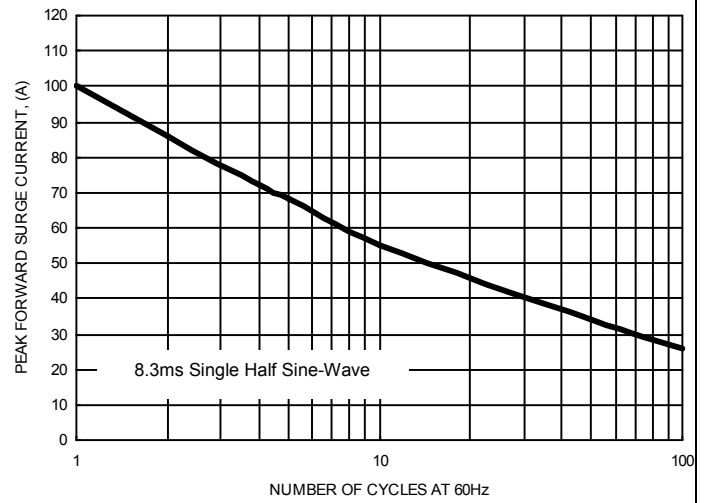


FIG. 3- TYPICAL JUNCTION CAPACITANCE

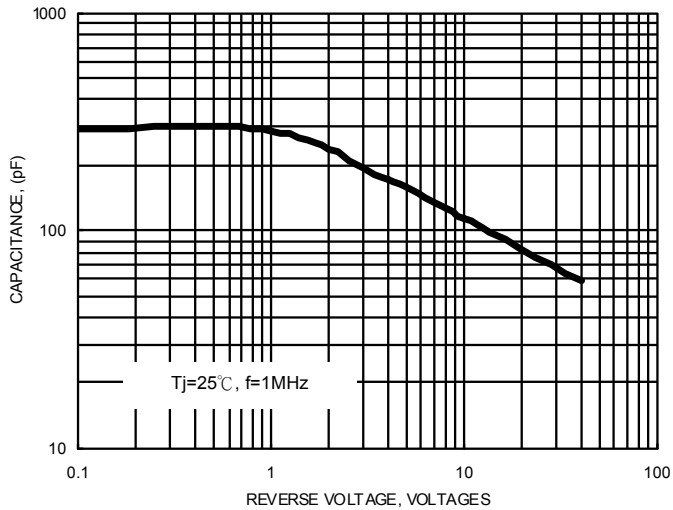


FIG. 4- TYPICAL FORWARD CHARACTERISTICS

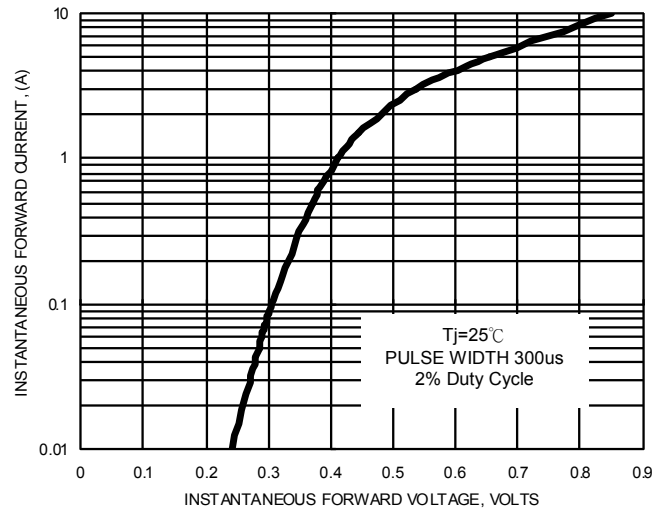


FIG. 5- TYPICAL REVERSE CHARACTERISTICS

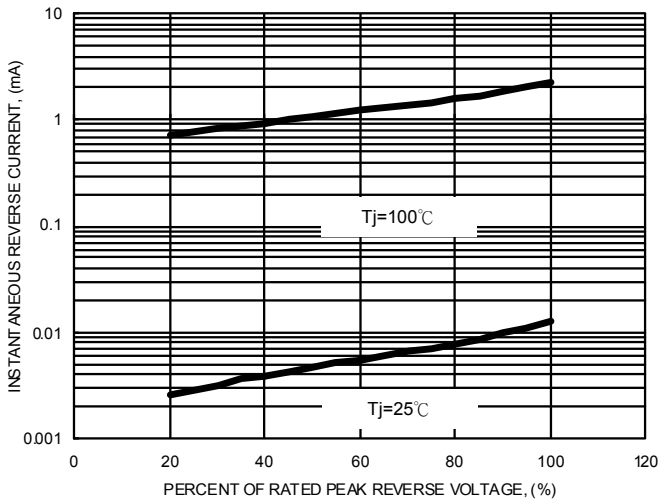


FIG. 6- DC REVERSE VOLTAGE DERATING CURVE

