



# B320 Thru B360

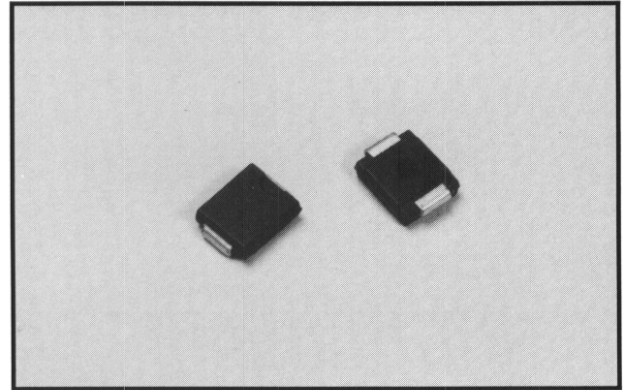
## 3 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### FEATURES

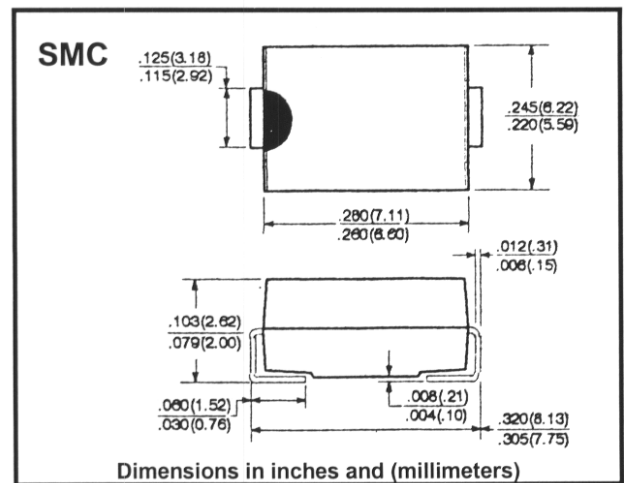
- For surface mount applications
- Metal semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- UL recognized 94V-O plastic material
- Lead solderable per MIL-STD-202 Method 208
- Surge overload rating to 100A peak

### Mechanical Data

- Case: Molded plastic
- Polarity: Indicated on cathode
- Weight: 0.007 ounces, 0.21 grams



### Outline Drawing



### Maximum Ratings & 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%

		B320	B330	B340	B350	B360	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Input Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Output Current .375" 9.5mm lead length @ T <sub>L</sub> = 110°C	I (AV)	3.0					A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	100					A
Maximum Forward Voltage Drop At 3.0A	V <sub>F</sub>	0.50			0.70		V
Maximum Reverse Current At Rated DC Blocking Voltage per Bridge Element @ T <sub>A</sub> = 25°C	I <sub>R</sub>	0.5					mA
		20					mA
Typical Junction Capacitance* (See Note)	C <sub>J</sub>	300					pF
Typical Thermal Resistance** (See Note)	R <sub>(THJL)</sub>	10					°C/W
Maximum Thermal Resistance** (See Note)	R <sub>(THJA)</sub>	50					°C/W
Operating Temperature Range	T <sub>J</sub>	-65 to +125					°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150					°C

Note: \*Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

\*\*Thermal resistance junction to lead/ambient measured on PC board 8mm<sup>2</sup> X (0.013mm thick)