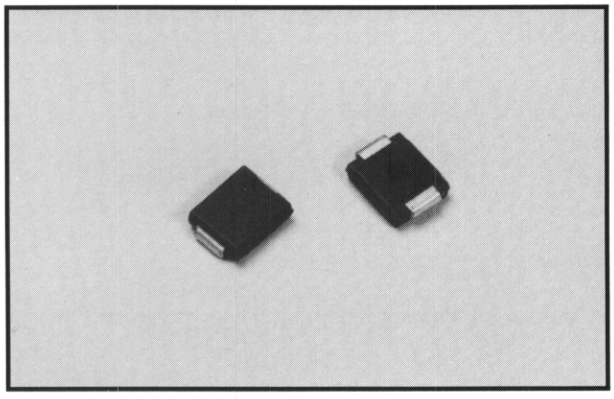
B320 Thru B360

3 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



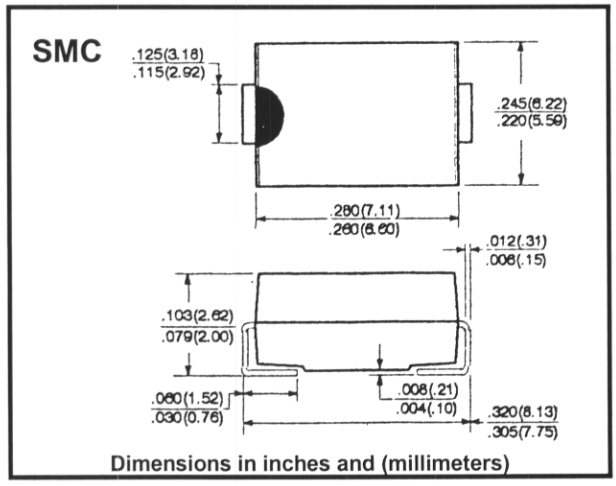
FEATURES

- 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



Dimensions in inches and (millimeters)

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_{RRM}	20	30	40	50	60	V
Maximum RMS Input Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Output Current .375" 9.5mm lead length @ T_L =110 °C	$I_{(AV)}$	3.0					A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	100					A
MaximumForward Voltage Drop At 3.0A	V_F	0.50			0.70		V
Maximum Reverse Current At Rated @ T_A = 25°C	I_R	0.5					mA
DC Blocking Voltage per Bridge Element @ T_A = 100°C		20					mA
Typical Junction Capacitance* (See Note)	C_J	300					pF
Typical Thermal Resistance** (See Note)	$R_{(THJL)}$	10					°C/W
Maximum Thermal Resistance**(See Note)	$R_{(THJA)}$	50					°C/W
Operating Temperature Range	T_J	-65 to +125					°C
Storage Temperature Range	T_{STG}	-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^2 X (0.013mm thick)