



B320 Thru B360

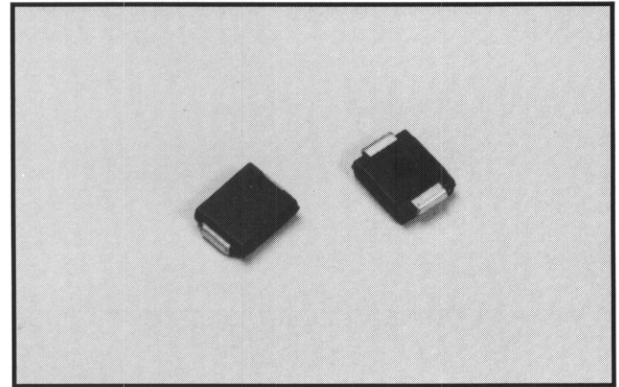
3 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

FEATURES

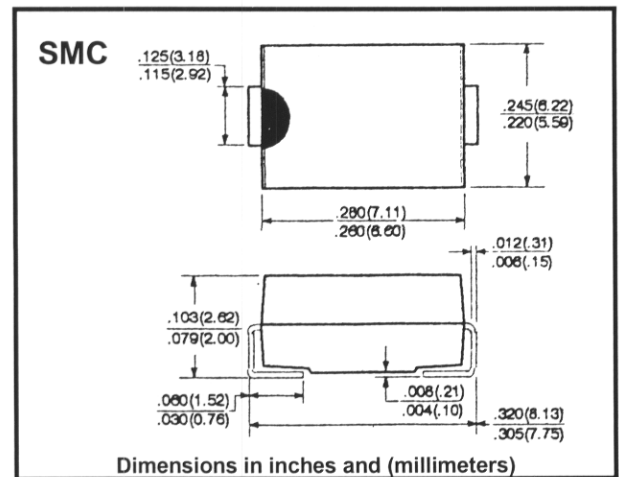
- For surface mount applications
- Metal semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- UL recognized 94V-O plastic material
- Lead solderable per MIL-STD-202 Method 208
- Surge overload rating to 100A peak

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_{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 @ $T_L = 110^\circ C$	$I_{(AV)}$	3.0					A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	100					A
Maximum Forward Voltage Drop At 3.0A	V_F	0.50		0.70			V
Maximum Reverse Current At Rated DC Blocking Voltage per Bridge Element @ $T_A = 100^\circ C$	I_R	0.5					mA
Typical Junction Capacitance* (See Note)	C_J	300					pF
Typical Thermal Resistance** (See Note)	$R_{(THJL)}$	10					$^\circ C/W$
Maximum Thermal Resistance** (See Note)	$R_{(THJA)}$	50					$^\circ C/W$
Operating Temperature Range	T_J	-65 to +125					$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150					$^\circ C$

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

**Thermal resistance junction to lead/ambient measured on PC board 8mm² X (0.013mm thick)