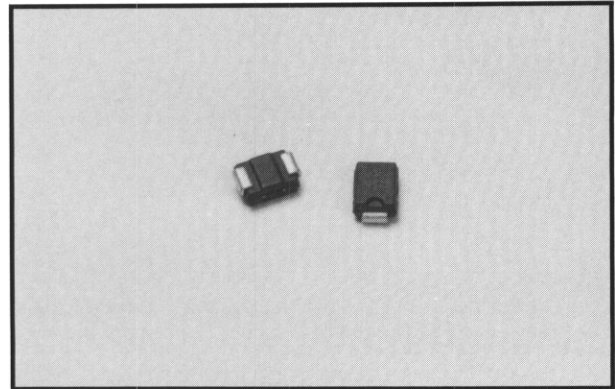


# B220 Thru B260



## 2 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



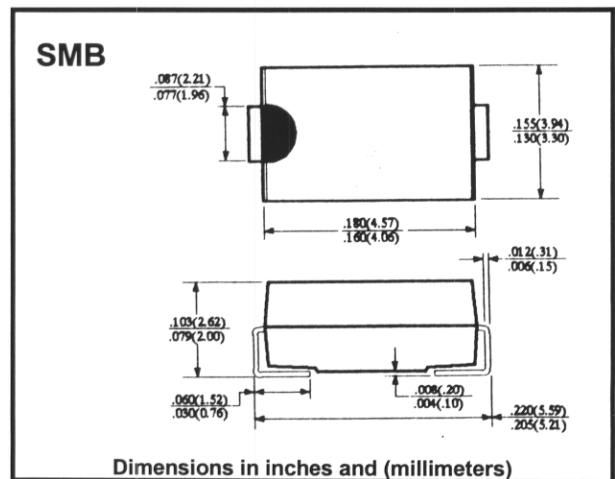
### FEATURES

- 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 50A peak

### Mechanical Data

- Case: Molded plastic
- Polarity: Indicated on cathode
- Weight: 0.003 ounces, 0.093 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%

		B220	B230	B240	B250	B260	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 @ $T_L = 100^\circ C$	$I_{(AV)}$	2.0					A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	$I_{FSM}$	50					A
Maximum Forward Voltage Drop At 2.0A	$V_F$	0.50			0.70		V
Maximum Reverse Current At Rated DC Blocking Voltage per Bridge Element @ $T_A = 25^\circ C$ @ $T_A = 100^\circ C$	$I_R$	0.5			20		mA mA
Typical Junction Capacitance* (See Note)	$C_J$	200					pF
Maximum Thermal Resistance** (See Note)	$R_{(THJL)}$	20					$^\circ C/W$
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, measured on PC board 5mm<sup>2</sup> X (0.013mm thick)