

# **B120 Thru B160**

### 1 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

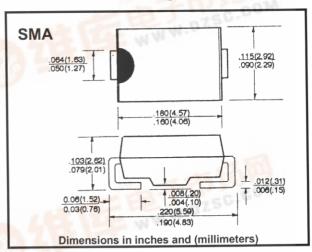
### FEATURES

- 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 30A peak

- Case: Molded plastic WWW.0256.60W
   Polarity: India Polarity: Indicated on cathode
- Weight: 0.002 ounces, 0.064 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%

		B120	B130	B140	B150	B160	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	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> = 100°C	C (AV)	1.0 WW. 02.5					А
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	IFSM	30					А
MaximumForward Voltage Drop At 1.0A	VF	0.50 0.70			.70	V	
Maximum Reverse Current At Rated @ T <sub>A</sub> = 25°0	C IR	0.5					mA
DC Blocking Voltage per Bridge Element @ T <sub>A</sub> = 100°C	C   'R	1.0					mA
Typical Junction Capacitance *(See Note)	CJ	110					pF
Maximum Thermal Resistance**(See Note)		10					°C/W
Operating Temperature Range	TJ	-65 to +150				°C	
Storage Temperature Range	T <sub>STG</sub>	-65 to +150					°C