# SHANGHAI SUNRISE ELECTRONICS CO., LTD.

# SB120 THRU SB160 SCHOTTKY BARRIER

RECTIFIER

TECHNICAL SPECIFICATION

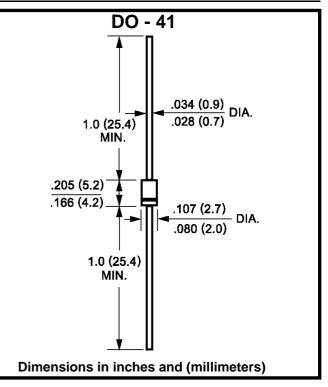
# VOLTAGE: 20 TO 60V CURRENT: 1.0A

#### FEATURES

- Epitaxial construction for chip
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed: 250°C/10sec/0.375"(9.5mm) lead length at 5 lbs tension

# MECHANICAL DATA

- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode
- Mounting position: Any



# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	SB 120	SB 130	SB 140	SB 150	SB 160	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS 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 Rectified Currer (9.5mm lead length,at T <sub>L</sub> =100°C)	nt I <sub>F(AV)</sub>	1.0					А
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	40.0					А
Maximum Forward Voltage (at 1.0A DC)	V <sub>F</sub>	0.5 0.7			V		
Maximum DC Reverse Current $T_a=2$ (at rated DC blocking voltage) $T_a=10$		1.0 10.0					mA mA
Typical Junction Capacitance (Not	e 1) C <sub>J</sub>	110					рF
Typical Thermal Resistance (Note	e 2) R ₀ (ja)	50					°C/W
Operating Junction Temperature	TJ	-(	65 to +12	25	-65 to	o +150	°C
Storage Temperature	T <sub>STG</sub>	-65 to +150				°C	
Note:	-						

1.Measured at 1.0 MHz and applied reverse voltage of  $4.0V_{dc}$ 

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, vertical P.C. board mounted

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