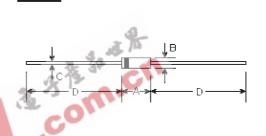


SB120S THRU SB1B0S

SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- 1.0 ampere operation at T_L=90°C with no thermal runaway
 For use in low voltage, high frequency inverters,
- free wheeling, and polarity protection applications



A-405

Mechanical Data

- Case: Molded plastic, A-405
- Terminals: Axial leads, solderable per
- MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any
- Weight: 0.008 ounce, 0.22 gram

DIMENSIONS											
DIM	inches		m	Note							
	Min.	Max.	Min.	Max.	Note						
А	0.165	0.205	4.2	5.2							
В	0.079	0.106	2.0	2.7	ф						
С	0.020	0.024	0.5	0.6	ф						
D	1.000	-	25.40	-							

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

	Symbols	SB 120S	SB 130S	SB 140S	SB 150S	SB 160S	SB 180S	SB 1B0S	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_L=90^\circ C$	I _(AV)	1.0							Amp
Peak forward surge current, I _{FM} (surge): 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{fsm}	30.0							Amps
Maximum forward voltage at 1.0A	V _F	0.55 0.70 0.85						Volts	
Maximum full load reverse current, full cycle average at $\rm T_{A}\text{=}75^{\circ}\!C$	I _{R(AV)}	30.0							mA
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I _R	1.0 10.0							mA
vpical junction capacitance (Note 1) C _j 110.0						ρF			
Typical thermal resistance (Note 2)	R _{⊚JA}	80.0							°C/W
Operating and storage temperature range	T _J , T _{stg}	-50 to +125							°C

(1) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

(2) Thermal resistance junction to ambient

RATINGS AND CHARACTERISTIC CURVES

