SBO20 THRU SBOB0

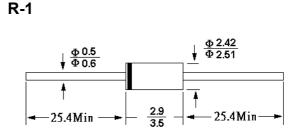
SCHOTTKY BARRIER RECTIFIERS Reverse Voltage – 20 to 100 Volts Forward Current – 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- 1.0 ampere operation at $T_1 = 90^{\circ}$ C with no thermal runaway
- · For use in low voltage, high frequency inverters free wheeling ,and polarity protection applications

Mechanical Data

- Case: Molded plastic, R-1
- Terminals: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any



Dimensions in mm

Absolute Maximum Ratings and Characteristics

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

	Symbols	SB	SB	SB	SB	SB	SB	SB	SB	SB	Units
		O20	O30	O40	O50	O60	O70	O80	O90	OB0	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	70	80	90	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	70	80	90	100	Volts
Maximum average forward rectified current	1								Amp		
0.375"(9.5mm) lead length at T_{L} = 90 ^{O}C	I _(AV)										
Peak forward surge current, I _{FM} (surge):											Amps
8.3mS single half sine-wave superimposed	I _{FSM} 30										
on rated load (MIL-STD-750D 4066 method)											
Maximum forward voltage at 1.0A	V _F	0.55 0.7 0.85					Volts				
Maximum full load reverse current, full cycle average at $T_A = 75$ °C	I _{R(AV)}	30								mA	
Maximum DC reverse current $T_A = 25^{\circ}C$	I _R 1 10								mA		
at rated DC blocking voltage $T_A = 100^{\circ}C$											
Typical junction capacitance (Note 1)	CJ	110									pF
Typical thermal resistance (Note 2)	$R_{ ext{ heta}JA}$	80									°C/W
Operating and storage temperature range	T _J ,T _S	-50 to +125								°C	

Notes:

(1) Measured at $1MH_z$ and applied reverse voltage of 4VDC.

(2) Thermal resistance junction to ambient



SEMTECH ELECTRONICS LTD.





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MOOD



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