SB220 THRU SB2100

Schottky Barrier Rectifier Reverse Voltage - 20 to 100 V Forward Current - 2 A

Features

- High current capability
- High surge current capability
- Low forward voltage drop
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case: Molded plastic, DO-41
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Dimensions in inchs and (millimeters)

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%.

Parameter	Symbols	SB220	SB230	SB240	SB250	SB260	SB280	SB2100	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							А
Maximum Forward Voltage at 2 A	V _F	0.55			0.7		0.85		V
Maximum Reverse Current $T_A = 25 ^{\circ}C$	la la	0.5							mA
at Rated DC Blocking Voltage $T_A = 100 ^{\circ}C$	١ĸ	20							
Typical Junction Capacitance ¹⁾	CJ	170							pF
Typical Thermal Resistance ²⁾	$R_{ ext{ heta}JA}$	35						°C/W	
Operating and Storage Temperature Range	T_{j} , T_{stg}	- 50 to + 125							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC

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



TOP DYNAMIC



FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE















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