

SB220 THRU SB2200

Schottky Barrier Rectifiers

Reverse Voltage - 20 to 200 V

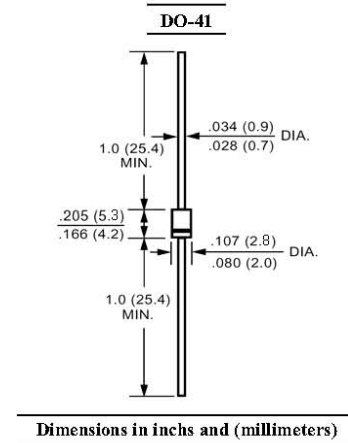
Forward Current - 2 A

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



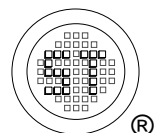
Absolute Maximum Ratings and Characteristics

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	SB2150	SB2200	Units	
	Marking	SB220	SB230	SB240	SB250	SB260	SB280	SB2100	SB2150	SB2200	-	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	$I_{F(AV)}$	2									A	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50									A	
Maximum Forward Voltage at 2 A	V_F	0.55			0.7		0.85		0.95		V	
Maximum Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	I_R	0.5					10					mA
Typical Junction Capacitance ¹⁾	C_J	170									pF	
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	50									°C/W	
Operating and Storage Temperature Range	T_j, T_{stg}	- 50 to + 125				- 50 to + 150					°C	

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

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



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