

Schottky Barrier Rectifier

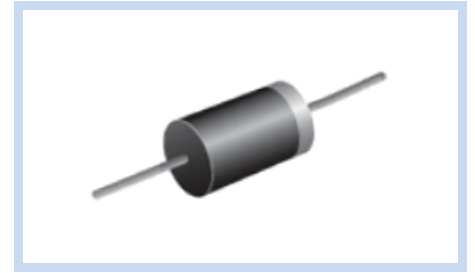
2A, 20~200V DO-15

SB220 to SB2200

MERITEK

FEATURE

- Operating Temperature: -55 ~ 150°C
- High Current and Surge Capability
- Low Forward Voltage Drop
- Flame Resistance UL-94V-O
- Applications: High Frequency Inverters, Free Wheeling, and Protection



ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SB 220	SB 230	SB 240	SB 250	SB 260	SB 280	SB 2100	SB 2150	SB 2200
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20V	30V	40V	50V	60V	80V	100V	150V	200V
Maximum RMS Voltage	V _{RMS}	14V	21V	28V	35V	42V	56V	70V	105V	140V
Maximum DC Blocking Voltage	V _{DC}	20V	30V	40V	50V	60V	80V	100V	150V	200V
Maximum Average Forward Rectified Current	I _{AV}	2.0A								
Peak Forward Surge Current (JEDEC method)	I _{FSM}	50.0A								
Maximum Forward Voltage at 5.0A and 25°C	V _F	0.55V			0.70V		0.85V		0.95V	
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.5mA, at T _A = 25°C								
		20mA, at T _A = 100°C								
Typical Junction Capacitance ^{Note 1}	C _J	180pF								
Typical Thermal Resistance ^{Note 2}	R _{θJA}	45.0°C/W								
Operating Junction Temperature	T _J	-55 ~ 125°C			-55 ~ 150°C					
Storage Temperature	T _{stg}	-55 ~ 125°C			-55 ~ 150°C					

Notes:

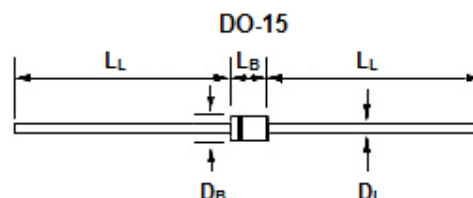
1. Measured at 1MHz and applied reverse voltage of 4.0 VDC.

2. Thermal Resistance Junction to Ambient and from junction to lead at 9.5mm lead length P.C.B. Mounted.

3. $T_A = 25^\circ\text{C}$ unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load, for capacitive load, derate current by 20%.

DIMENSIONS

Item	Min (mm)	Max (mm)
L_B	5.8	7.6
L_L	25.4	-
D_B	2.6	3.6
D_L	0.7	0.9

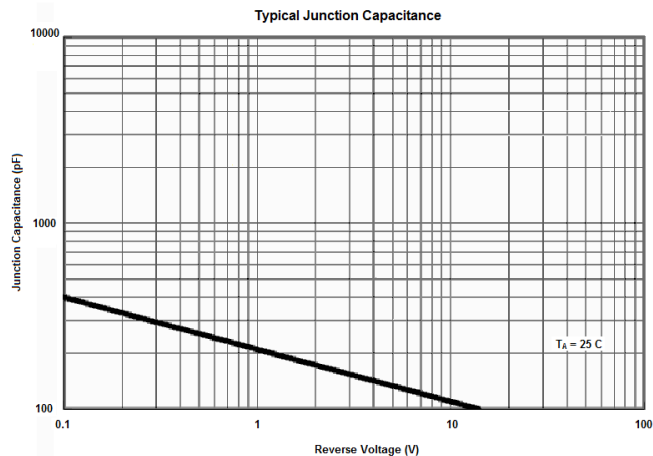
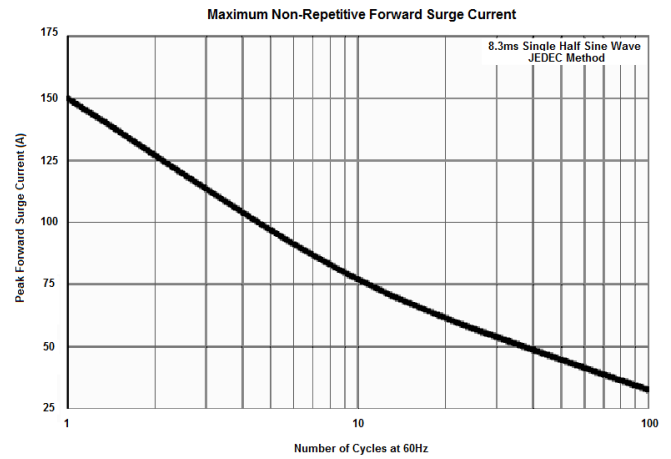
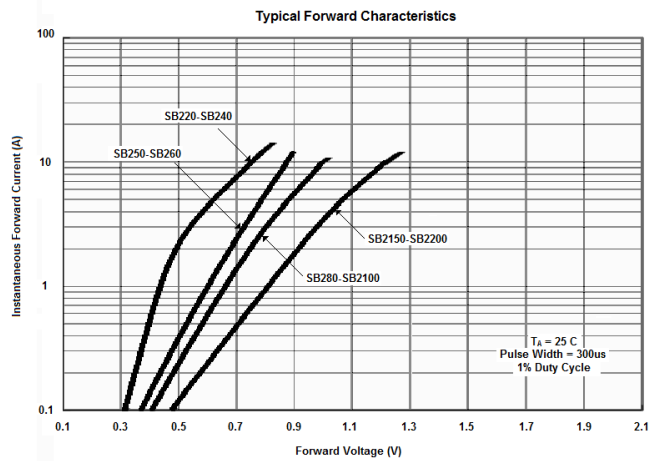
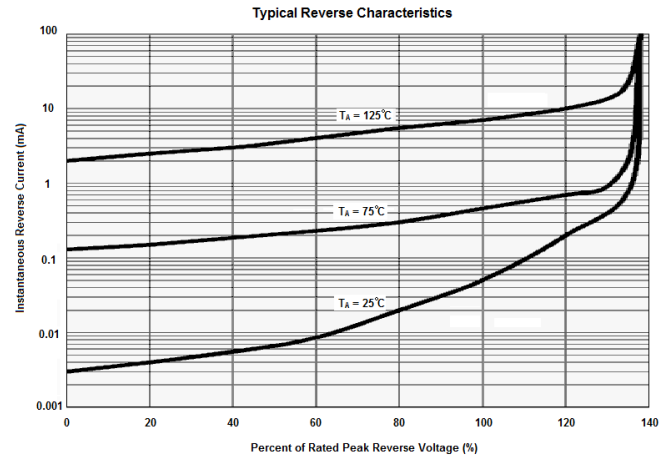
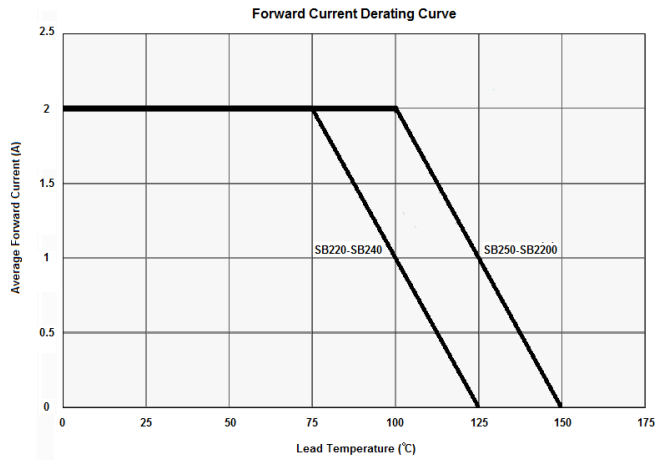


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CHARACTERISTIC CURVES



Meritek Discrete Components Series: <http://www.meritekusa.com/EN/productlist/node/22>

Meritek Product Series: <http://www.meritekusa.com/EN/products>

*Specifications subject to change without notice.