

Schottky Barrier Rectifier

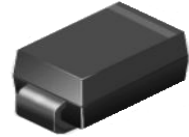
2A, 20~20V DO-214AA SMB

SK22B to SK220B

MERITEK

FEATURE

- Operating Temperature: -65 ~ 150°C
- High Current and Surge Capacity
- Low Power Loss, High Efficiency
- Built-in Strain Relief
- Low Profile Construction
- Metal to Silicon Rectifier, Majority Carrier Conduction
- Flame Resistance UL-94V-O



ELECTRICAL CHARACTERISTICS



Parameter	Symbol	SK 22B	SK 23B	SK 24B	SK 25B	SK 26B	SK 28B	SK 210B	SK 215B	SK 220B
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	71V	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 2.0A ^{Note 1}	V _F	0.50V	0.55V	0.55V	0.75V	0.75V	0.85V	0.85V	0.95V	0.95V
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.5mA, T _J = 25°C								
		20.0mA, T _J = 100°C								
Typical Thermal Resistance ^{Note 2}	R _{θJA}	75.0°C/W								
	R _{θJL}	17.0°C/W								
Operating Junction Temperature	T _J	-65 ~ 125°C				-65 ~ 150°C				
Storage Temperature Range	T _{stg}	-65 ~ 150°C								

Notes:

1. Pulse test: 300μs pulse width, 1% duty cycle

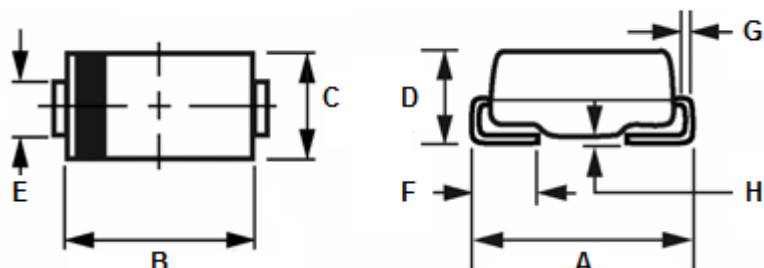
2. P.C.B. mounted with 8.0 x 8.0mm copper pad areas

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)
A	5.08	5.59
B	4.02	4.85
C	3.26	3.94
D	2.11	2.44
E	1.91	2.20
F	0.76	1.52
G	0.152	0.305
H	0.000	0.203

DO-214AA / SMB



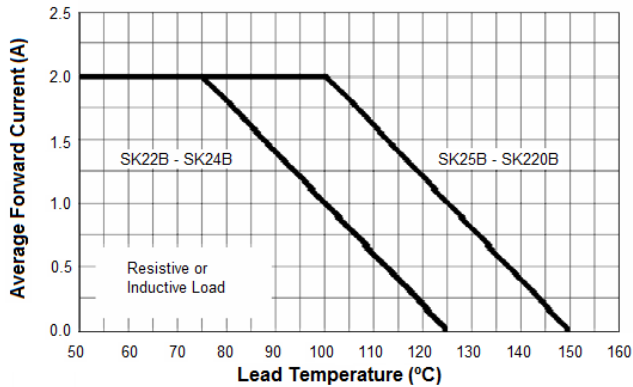
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SK22B to SK220B

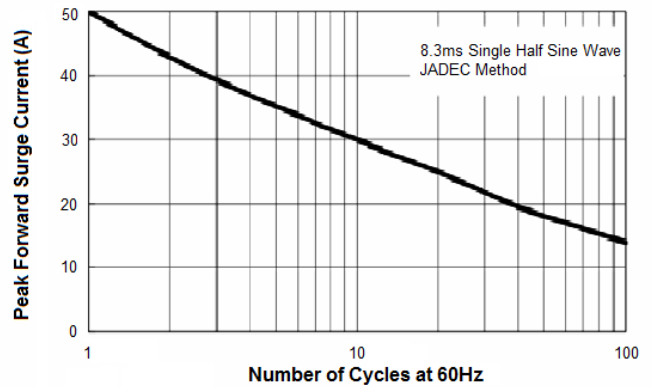
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CHARACTERISTIC CURVES

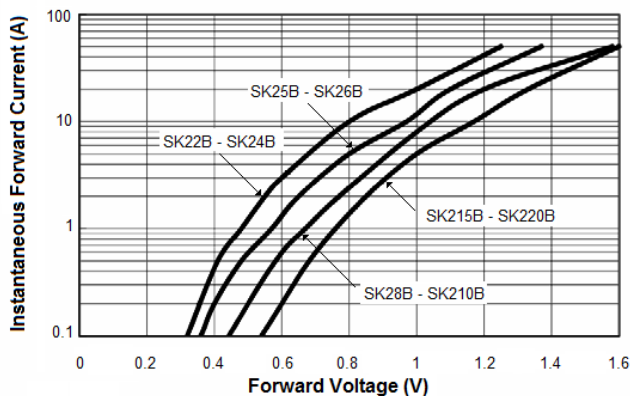
Max Forward Current Derating Curve



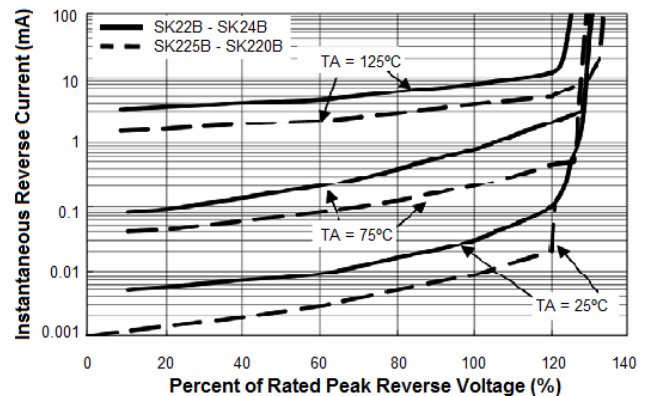
Max Non-Repetitive Forward Surge Current



Typical Foward Characteristics



Typical Reverse Characteristics



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.