

# Schottky Barrier Rectifier

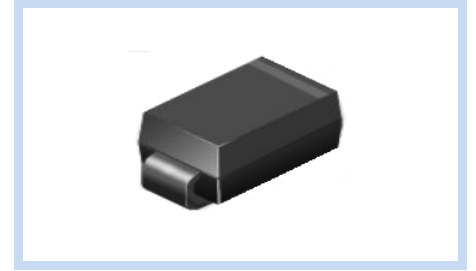
## 3A, 20~200V DO-214AA SMB

SK32B to SK320B

MERITEK

### FEATURE

- Operating Temperature: -55 ~ 150°C
- Low Power Loss, High Efficiency
- Built-in Strain Relief
- Low Profile Construction
- Flame Resistance UL-94V-O



### ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SK 32B	SK 33B	SK 34B	SK 35B	SK 36B	SK 38B	SK 310B	SK 315B	SK 320B
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	$I_{AV}$	3.0A								
Peak Forward Surge Current (JEDEC method)	$I_{FSM}$	80.0A								
Maximum Forward Voltage at 3.0A <sup>Note 1</sup>	$V_F$	0.50V	0.55V	0.75V		0.85V		0.95V		
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5mA at $T_J = 25^\circ\text{C}$								
		20.0mA at $T_J = 100^\circ\text{C}$								
Typical Thermal Resistance <sup>Note 2</sup>	$R_{\theta JA}$	55.0°C/W								
	$R_{\theta JL}$	17.0°C/W								
Operating Junction Temperature	$T_J$	-55 ~ 125°C				-55 ~ 150°C				
Storage Temperature	$T_{stg}$	-55 ~ 150°C								

Notes:

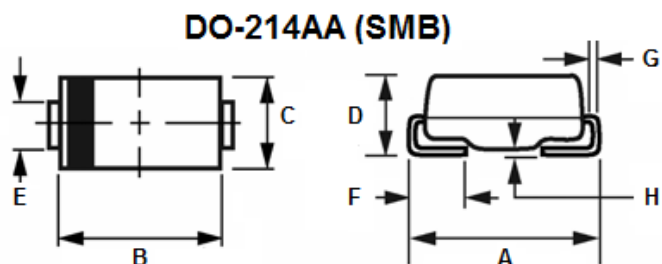
1. Pulse test: 300µs pulse width, 1% duty cycle

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%.

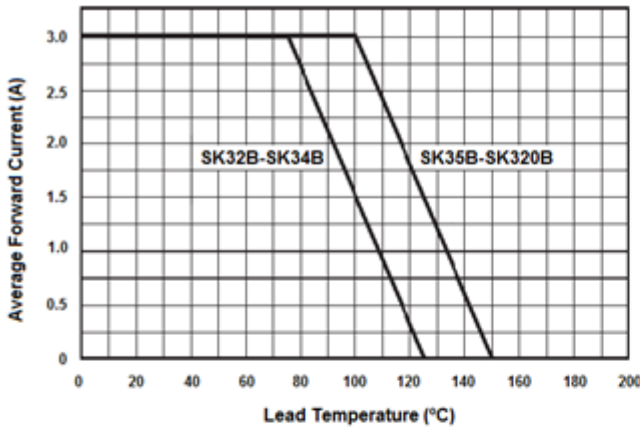
### DIMENSIONS

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

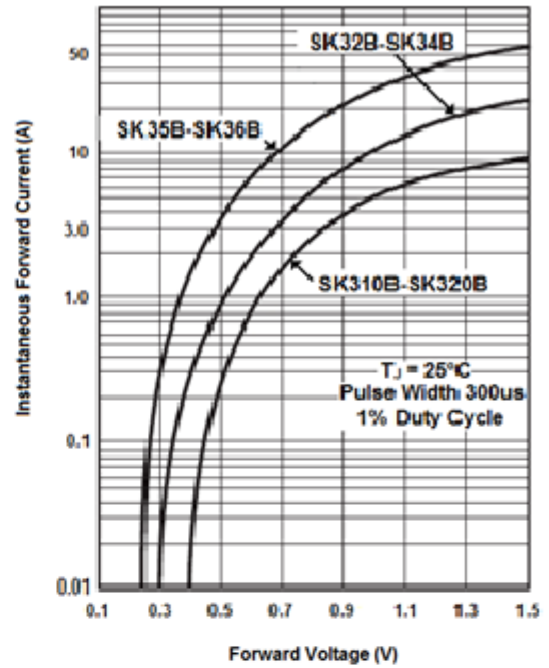


**CHARACTERISTIC CURVES**

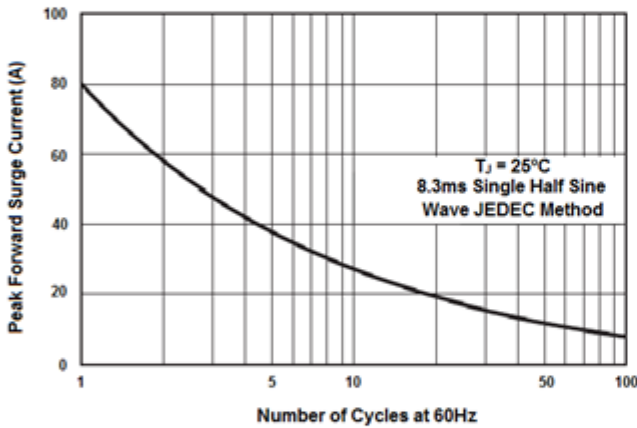
Typical Forward Current Derating Curve



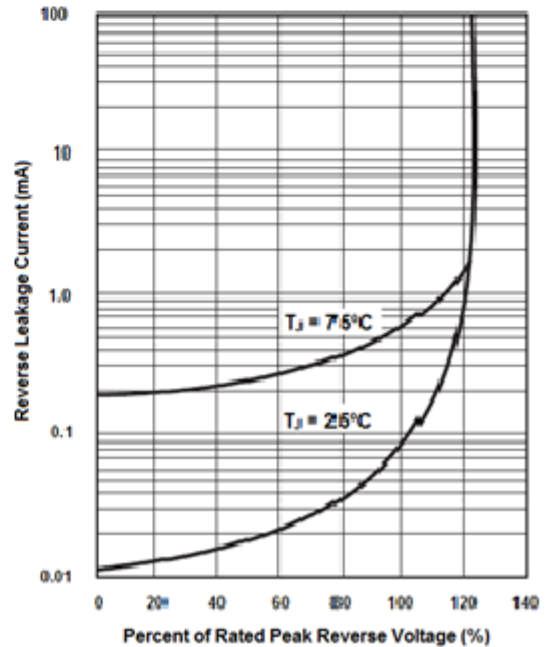
Typical Forward Characteristics



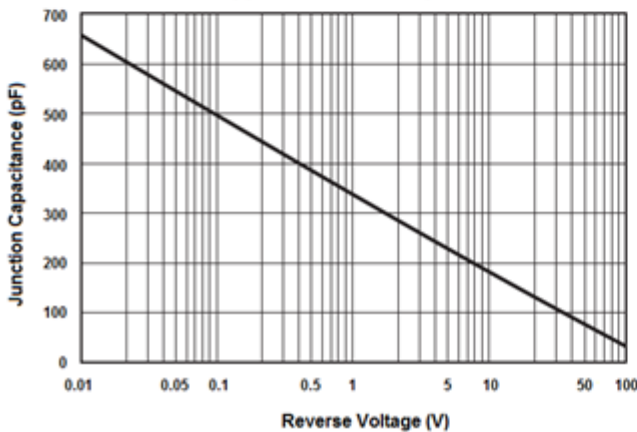
Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristics



Typical Junction Capacitance



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

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

\*Specifications subject to change without notice.