

Schottky Barrier Rectifier

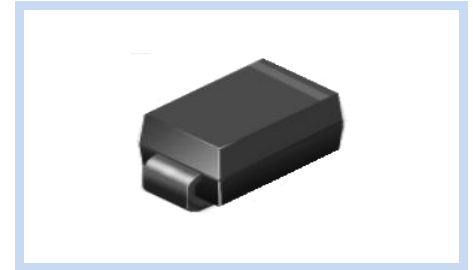
5A, 20~200V DO-214AA SMB

SK52B to SK520B

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

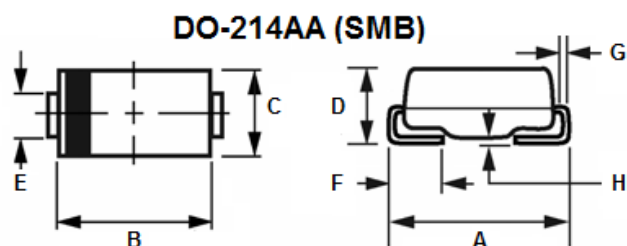
Parameter	Symbol	SK 52B	SK 53B	SK 54B	SK 55B	SK 56B	SK 58B	SK 510B	SK 515B	SK 520B
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20V	30V	40V	50V	60V	80V	100V	150V	200V
Maximum RMS Voltage	V_{RMS}	14V	21V	28V	35V	42V	56V	71V	105V	140V
Maximum DC Blocking Voltage	V_{DC}	20V	30V	40V	50V	60V	80V	100V	150V	200V
Maximum Average Forward Rectified Current	I_{AV}	5.0A								
Peak Forward Surge Current (JEDEC method)	I_{FSM}	100.0A								
Maximum Forward Voltage at 5.0A <small>Note 1</small>	V_F	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 <small>Note 2</small>	$R_{\theta JA}$	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 14.0 x 14.0mm 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	5.21	5.59
B	4.06	4.57
C	3.30	3.94
D	2.13	2.44
E	1.96	2.11
F	0.76	1.52
G	0.152	0.305
H	0.102	0.203



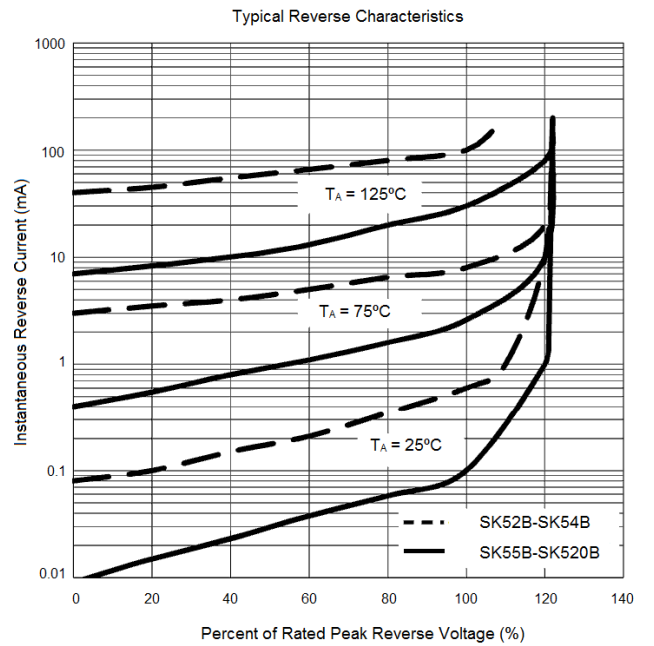
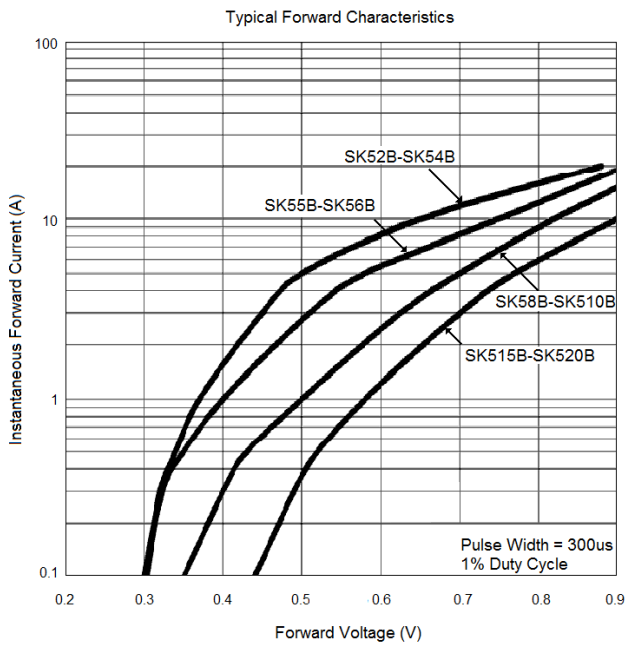
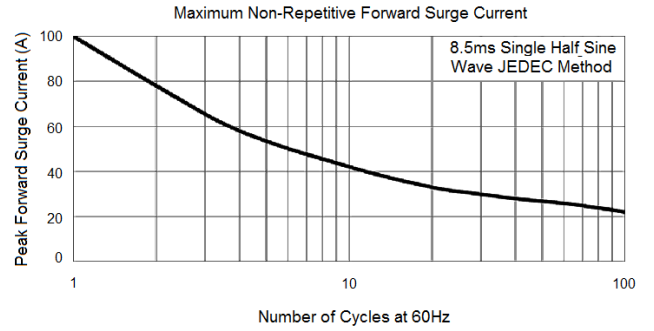
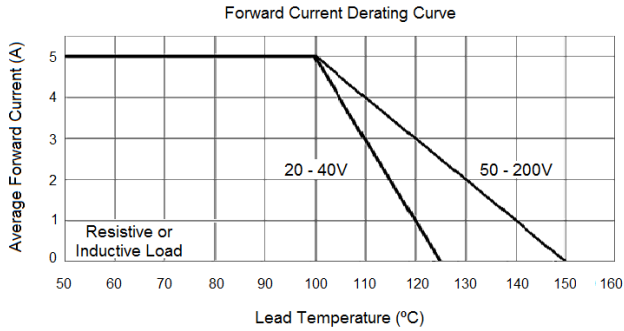
Schottky Barrier Rectifier

5A, 20~200V DO-214AA SMB

SK52B to SK520B

MERITEK

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.