

Schottky Barrier Rectifier

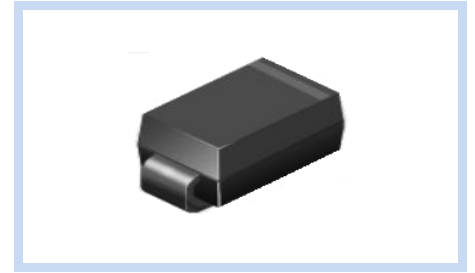
5A, 20~200V DO-214AB SMC

SK52C to SK520C

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 52C	SK 53C	SK 54C	SK 55C	SK 56C	SK 58C	SK 510C	SK 515C	SK 520C
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 ^{Note 1}	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°C								
		20.0mA at T _J = 100°C								
Typical Thermal Resistance ^{Note 2}	R _{θJA}	55.0°C/W								
	R _{θJL}	17.0°C/W								
Operating Junction Temperature	T _J	-55 ~ 125°C				-55 ~ 150°C				
Storage Temperature	T _{stg}	-55 ~ 150°C								

Notes:

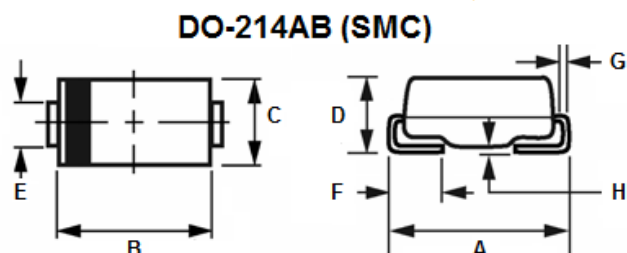
1. Pulse test: 300μs pulse width, 1% duty cycle

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	7.64	8.13
B	6.52	7.11
C	5.52	6.22
D	2.00	2.62
E	2.75	3.25
F	0.76	1.52
G	0.152	0.305
H	0.000	0.203

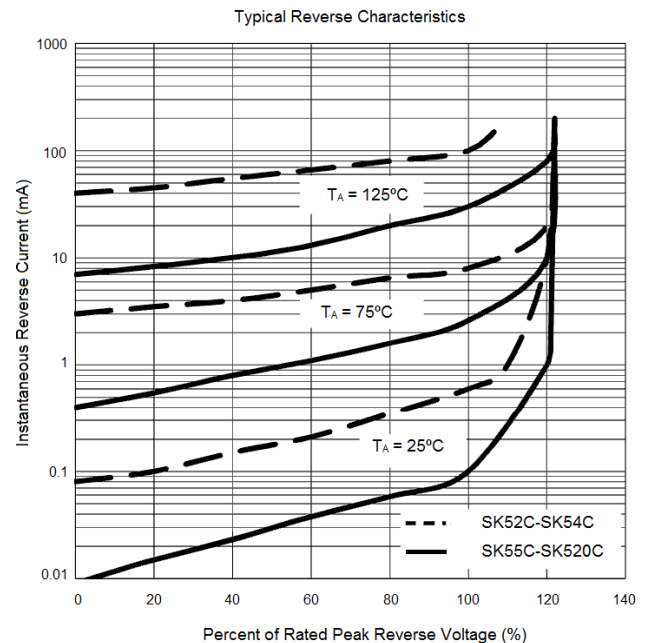
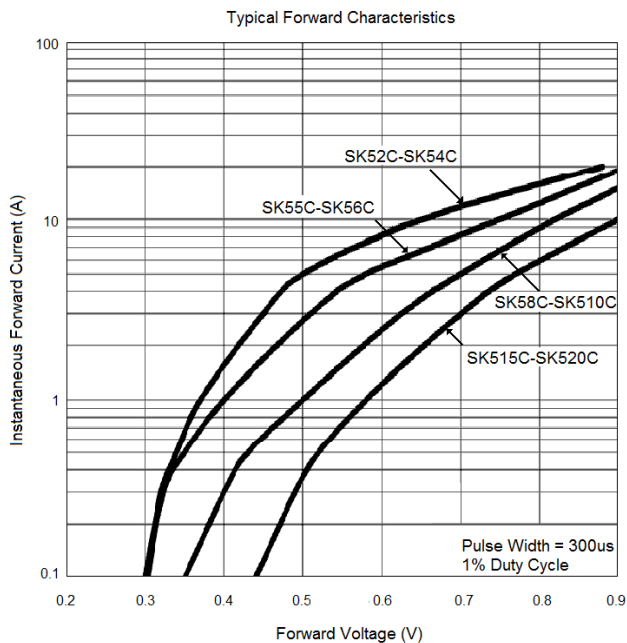
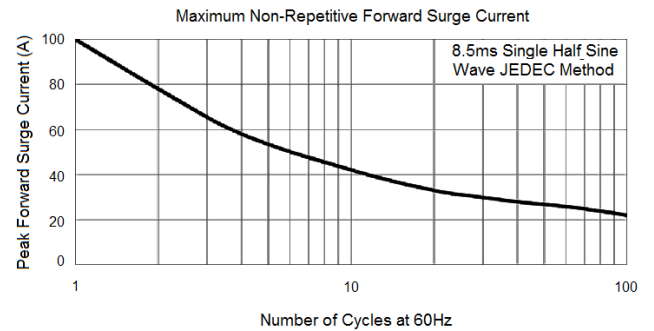
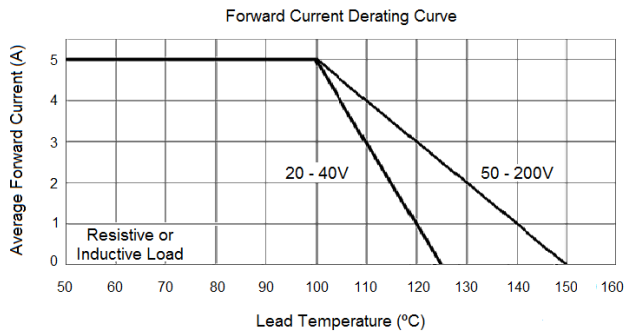


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SK52C to SK520C

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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.