

Schottky Barrier Rectifier

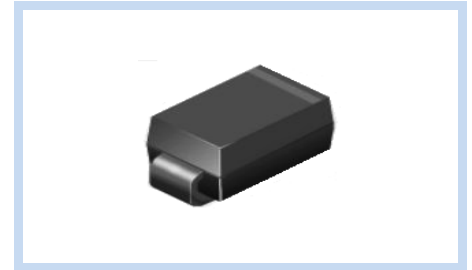
3A, 20~150V DO-214AB SMC

SK32C to SK315C

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

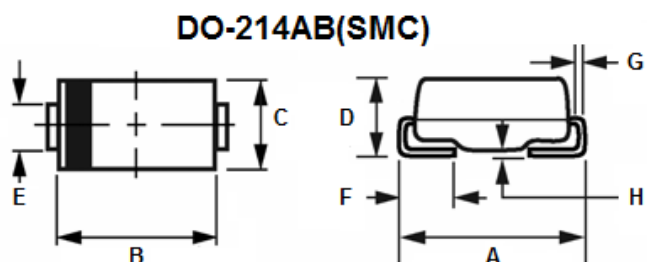
Parameter	Symbol	SK 32C	SK 33C	SK 34C	SK 35C	SK 36C	SK 38C	SK 39C	SK 310C	SK 315C
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20V	30V	40V	50V	60V	80V	90V	100V	150V
Maximum RMS Voltage	V_{RMS}	14V	21V	28V	35V	42V	56V	64V	71V	105V
Maximum DC Blocking Voltage	V_{DC}	20V	30V	40V	50V	60V	80V	90V	100V	150V
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 ^{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 $T_J = 25^\circ\text{C}$								
		20.0mA at $T_J = 100^\circ\text{C}$								
Typical Thermal Resistance ^{Note 2}	$R_{\theta JA}$	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: 300 μ s 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



CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

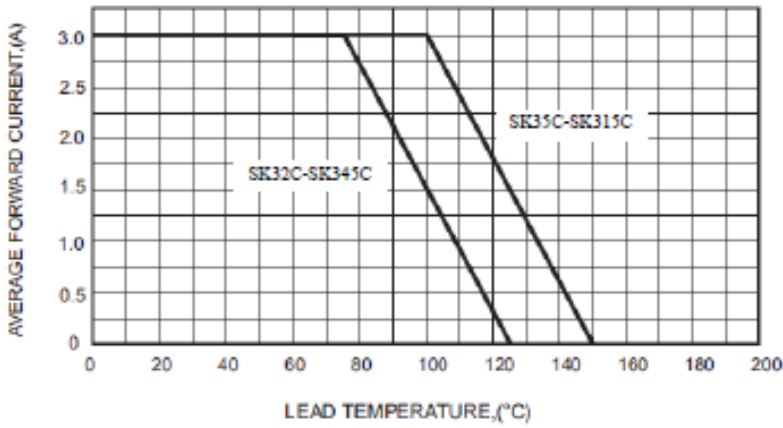


FIG.2-TYPICAL FORWARD CHARACTERISTICS

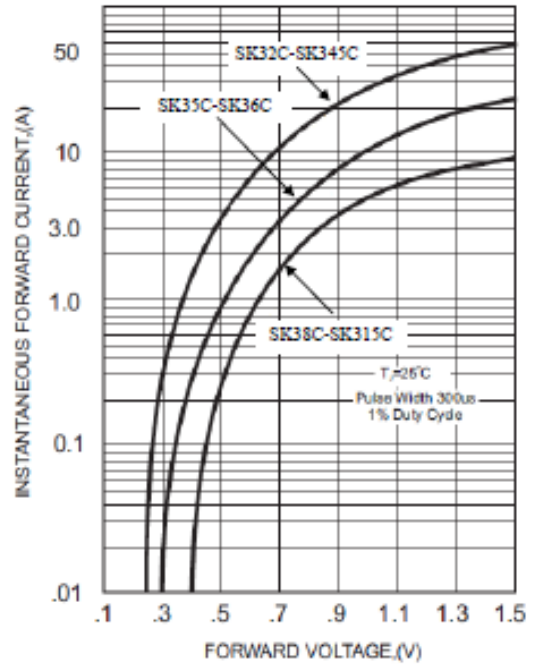


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

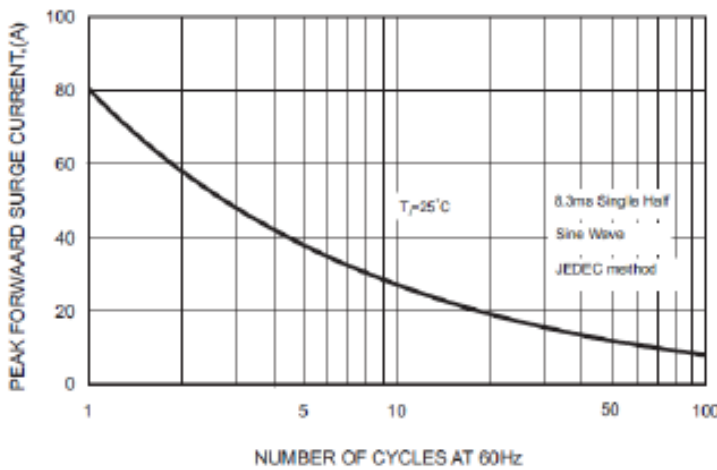


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

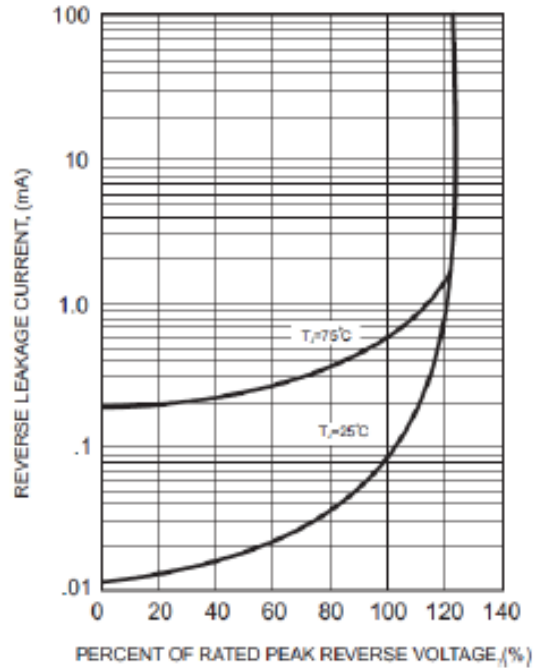
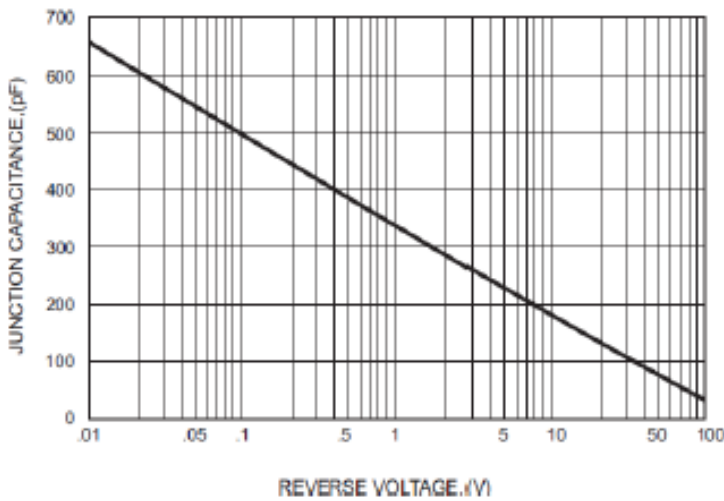


FIG.4-TYPICAL JUNCTION CAPACITANCE



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.