

Schottky Barrier Rectifier

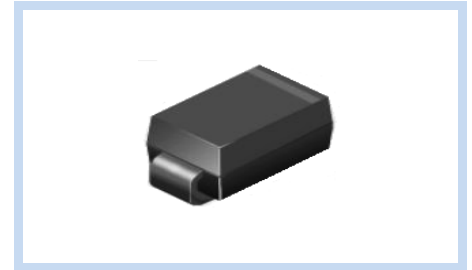
3A, 20~150V DO-214AC SMA

SK32A to SK315A

MERITEK

FEATURE

- Operating Temperature: -65 ~ 150°C
- Low Power Loss, High Efficiency
- Built-in Strain Relief
- Flame Resistance UL-94V-O
- Low Profile Construction



ELECTRICAL CHARACTERISTICS

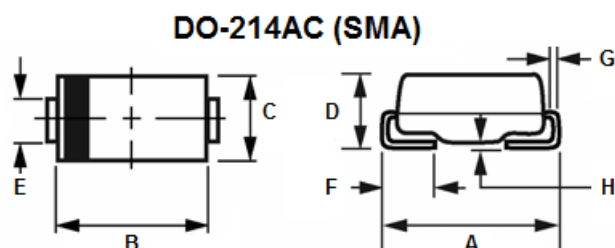
Parameter	Symbol	SK 32A	SK 33A	SK 34A	SK 345A	SK 35A	SK 36A	SK 38A	SK 310A	SK 315A
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20V	30V	40V	45	50V	60V	80V	100V	150V
Maximum RMS Voltage	V_{RMS}	14V	21V	28V	31.5	35V	42V	56V	71V	105V
Maximum DC Blocking Voltage	V_{DC}	20V	30V	40V	45	50V	60V	80V	100V	150V
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	0.50V			0.70V		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	-65 ~ 125°C				-65 ~ 150°C				
Storage Temperature	T_{stg}	-65 ~ 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%.

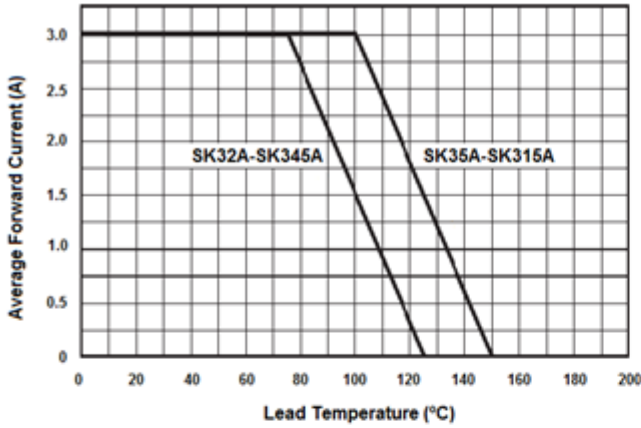
DIMENSIONS

Item	Min (mm)	Max (mm)
A	4.70	5.31
B	4.00	4.60
C	2.18	2.90
D	1.70	2.44
E	1.23	1.70
F	0.76	1.52
G	0.152	0.305
H	0.000	0.203

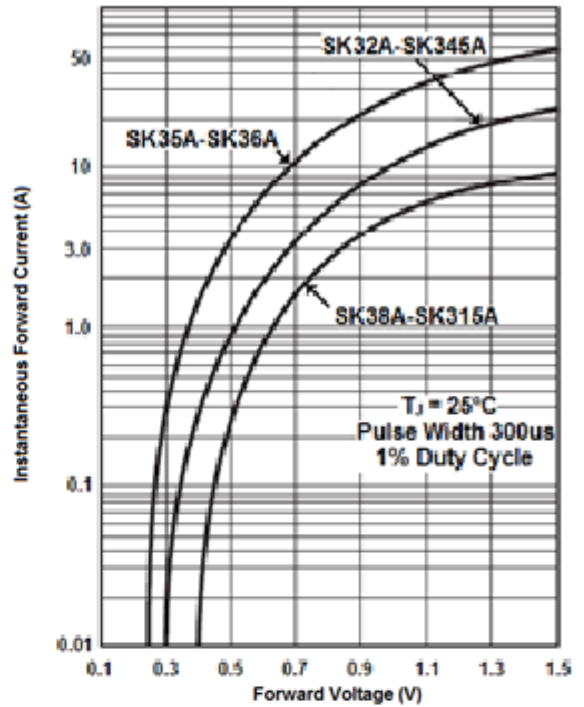


CHARACTERISTIC CURVES

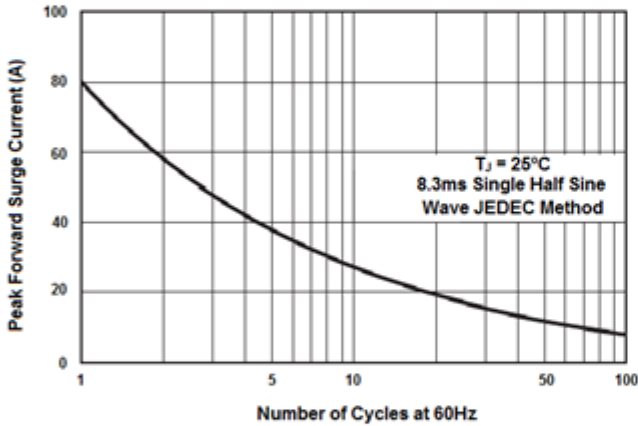
Typical Forward Current Derating Curve



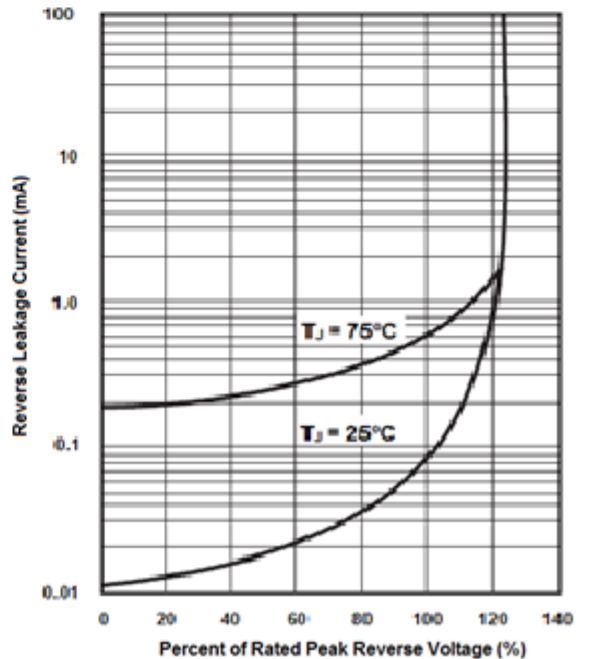
Typical Forward Characteristics



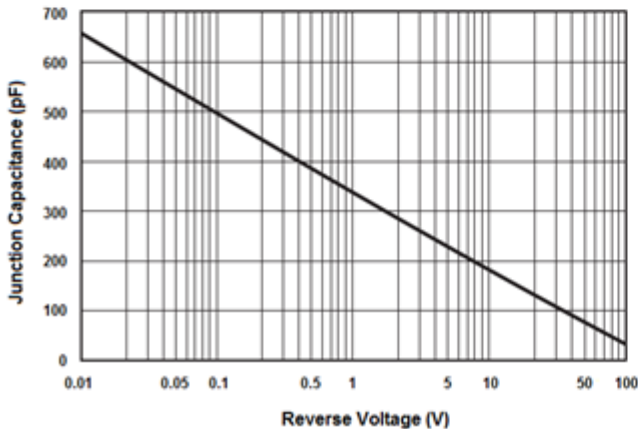
Maximum Non-Repetitive Forward Surge Current



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.