

Schottky Barrier Rectifier

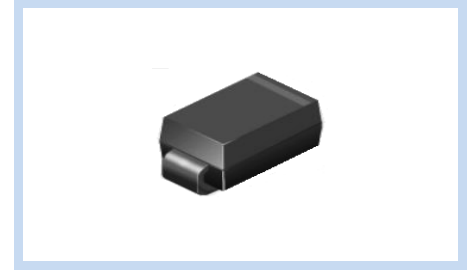
1.0A, 20~200V DO-214AC SMA

SS12A to SS120A

MERITEK

FEATURE

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



ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SS 12A	SS 13A	SS 14A	SS 15A	SS 16A	SS 18A	SS 110A	SS 115A	SS 120A
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}	1.0A								
Peak Forward Surge Current (JEDEC method)	I_{FSM}	30.0A								
Maximum Forward Voltage at 2.0A ^{Note 1}	V_F	0.50V	0.55V	0.70V			0.85V		0.95V	
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	0.5mA, $T_A = 25^\circ\text{C}$								
		10mA, $T_A = 125^\circ\text{C}$								
Typical Thermal Resistance ^{Note 2}	$R_{\theta JA}$	88.0°C/W								
	$R_{\theta JL}$	28.0°C/W								
Operating Junction Temperature	T_J	-65 ~ 125°C				-65 ~ 150°C				
Storage Temperature Range	T_{stg}	-65 ~ 150°C								

Notes:

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

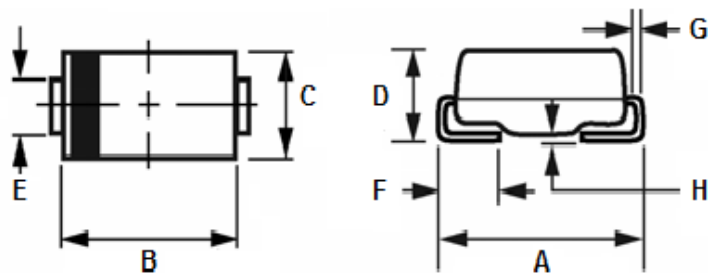
2. P.C.B. mounted with 5.0 x 5.0mm copper pad areas

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

DO-214AC / SMA



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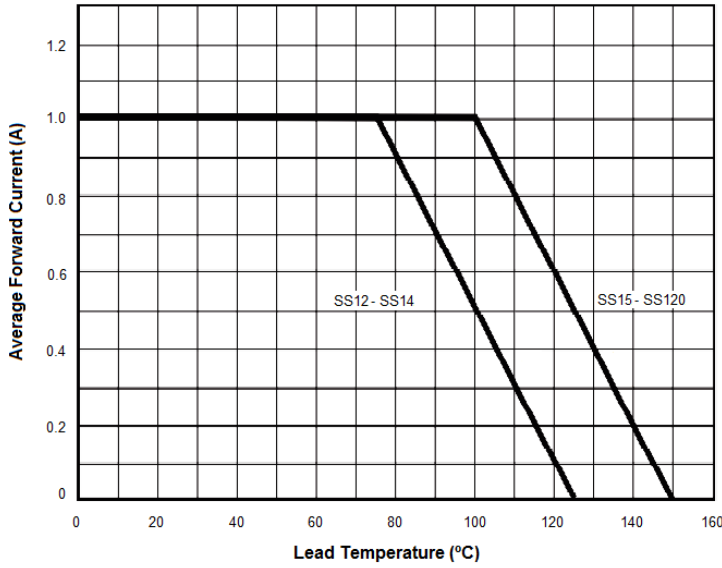
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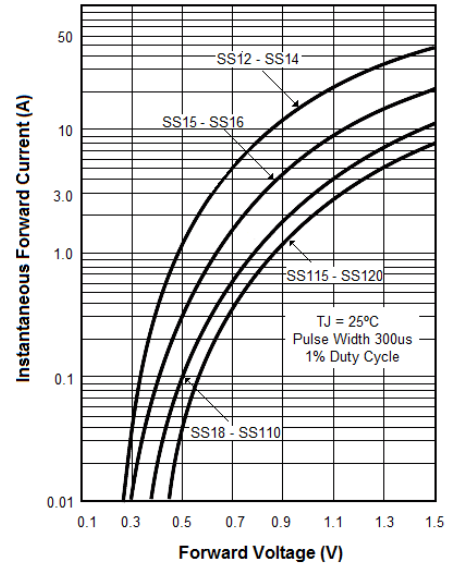
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CHARACTERISTIC CURVES

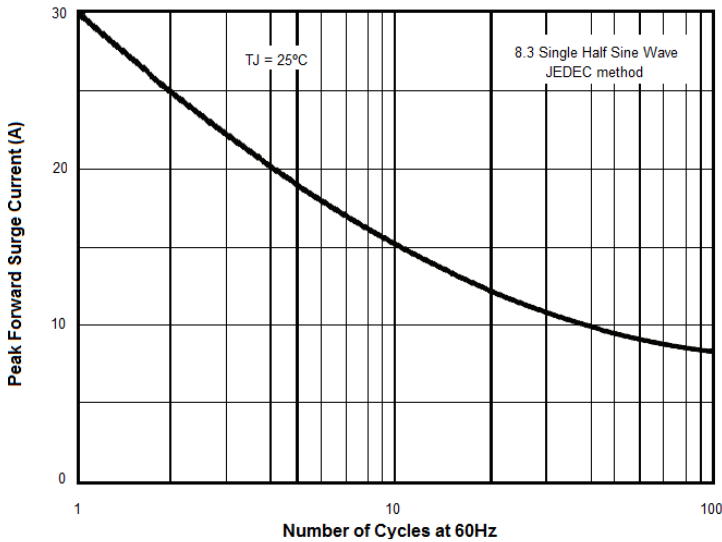
Typical Forward Current Derating Curve



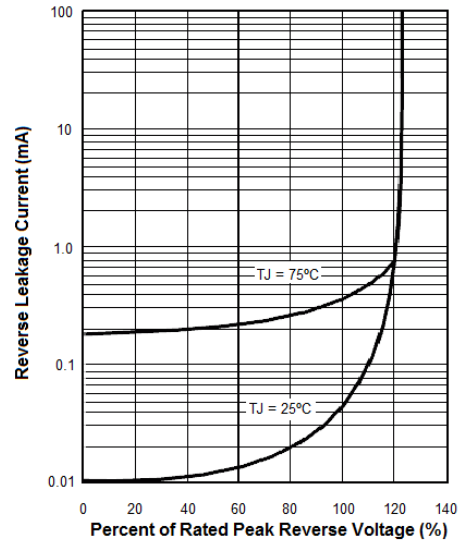
Typical Forward Characteristics



Max Non-Repetitive Forward Surge Current



Typical Reverse Characteristics



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.