

# Schottky Barrier Rectifier

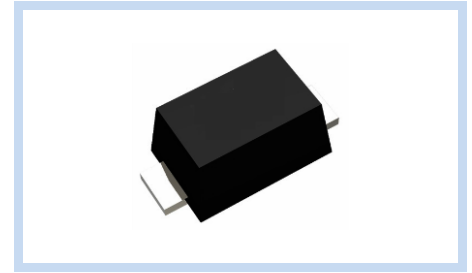
## 3A, 40~100V SOD-123T

SS34T to SS310T

MERITEK

### FEATURE

- Operating Temperature: -55 ~ 150°C
- Ultrafast high-speed switching
- High surge capability
- Low forward voltage drop
- Low power losses, high efficiency
- Low profile construction



### ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SS34T	SS36T	SS310T
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40V	60V	100V
Maximum RMS Voltage	$V_{RMS}$	28V	42V	70V
Maximum DC Blocking Voltage	$V_R$	40V	60V	100V
Maximum Average Forward Rectified Current	$I_{AV}$	3.0A		
Peak Forward Surge Current (JEDEC method)	$I_{FSM}$	70.0A		
Maximum Forward Voltage at 3.0A	$V_F$	0.50V	0.65V	0.82V
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	0.1mA at $T_J = 25^\circ\text{C}$		
		20mA at $T_J = 100^\circ\text{C}$		
Typical Thermal Resistance <sup>Note 1</sup>	$R_{\theta JA}$	55.0°C/W		
Operating Junction Temperature	$T_J$	-55 ~ 125°C	-55 ~ 150°C	
Storage Temperature Range	$T_{stg}$	-55 ~ 150°C		

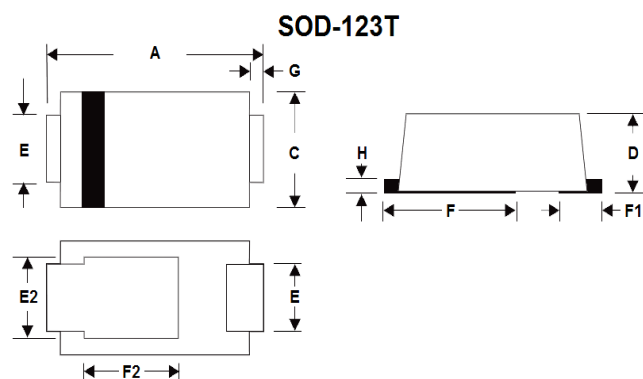
Notes:

1. F = 1MHz and applied 4VDC reverse voltage

2. TA = 25°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	3.50	3.90
C	1.60	2.00
D	1.00	1.40
E	0.80	1.00
E2	0.90	1.30
F	2.05	2.45
F1	0.60	1.00
F2	1.05	1.45
G	0.20	0.60
H	-	0.20



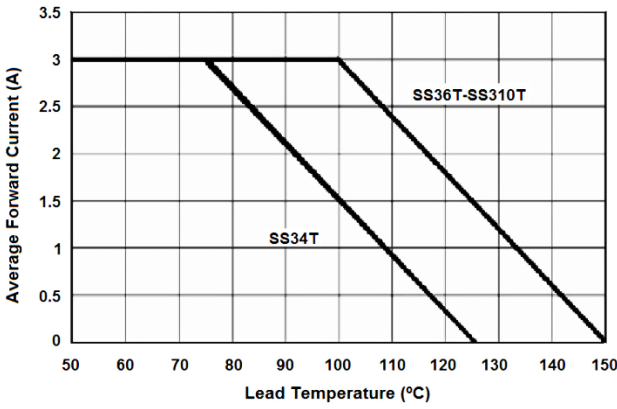
# Schottky Barrier Rectifier 3A, 40~100V SOD-123T

SS34T to SS310T

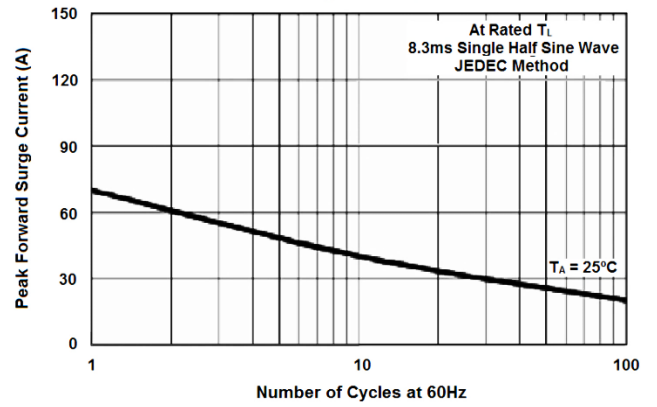
**MERITEK**

## CHARACTERISTIC CURVES

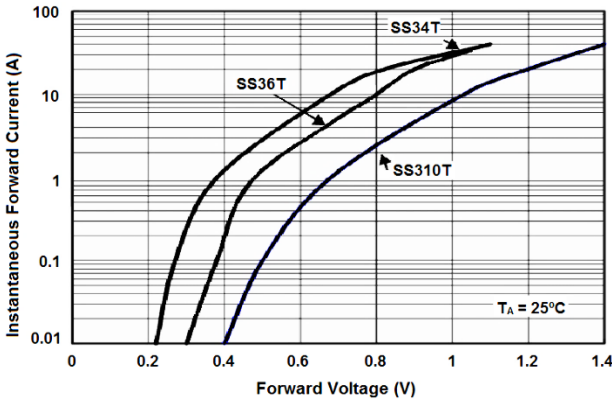
Forward Current Derating Curve



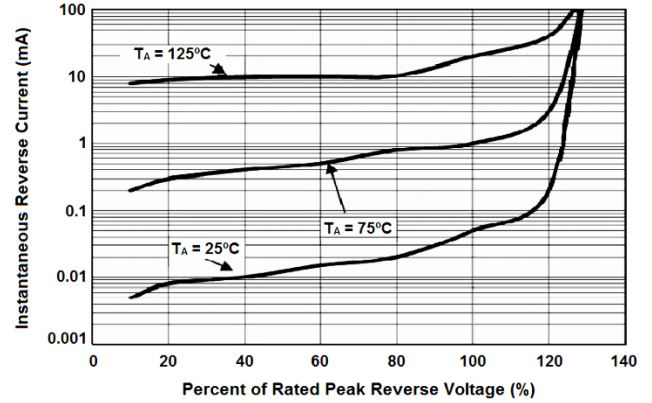
Maximum Non-Repetitive Forward Surge Current



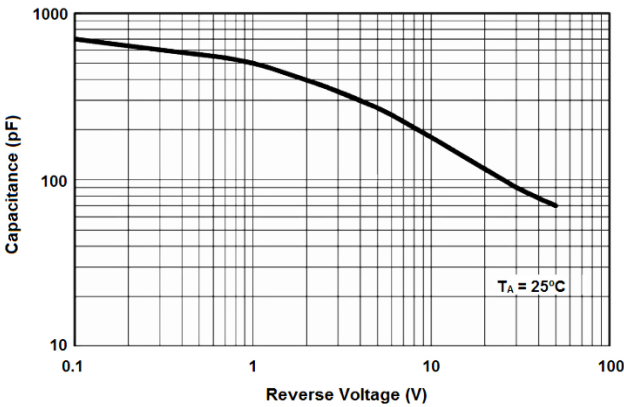
Typical Forward Characteristics



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.