

# Schottky Barrier Rectifier 2A, 20~150V SOD-123FL

SS22FL to SS215FL

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## FEATURE

- Operating Temperature: -55 ~ 150°C
- Ultra high-speed switching
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- Low Profile Construction



## ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SS 22FL	SS 24FL	SS 26FL	SS 210FL	SS 215FL
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20V	40V	60V	100V	150V
Maximum RMS Voltage	$V_{RMS}$	14V	28V	42V	70V	105V
Maximum DC Blocking Voltage	$V_{DC}$	20V	40V	60V	100V	150V
Maximum Average Forward Rectified Current	$I_{AV}$	2.0A				
Peak Forward Surge Current (JEDEC method)	$I_{FSM}$	50.0A				
Maximum Forward Voltage at 2.0A	$V_F$	0.55V	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 <sup>Note 1</sup>	$R_{\theta JA}$	85.0°C/W				
Operating Junction Temperature	$T_J$	-55 ~ 150°C				
Storage Temperature Range	$T_{stg}$	-55 ~ 150°C				

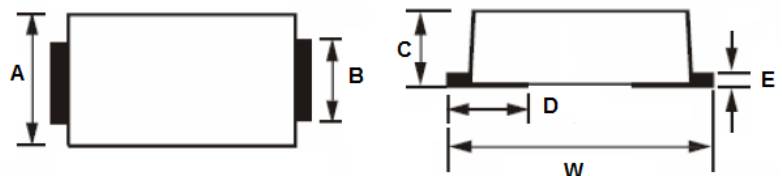
Notes:

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)
W	3.50	3.90
A	1.50	2.00
B	0.60	1.00
C	0.80	1.40
D	0.50	1.10
E	0.05	0.25

SOD-123FL Package



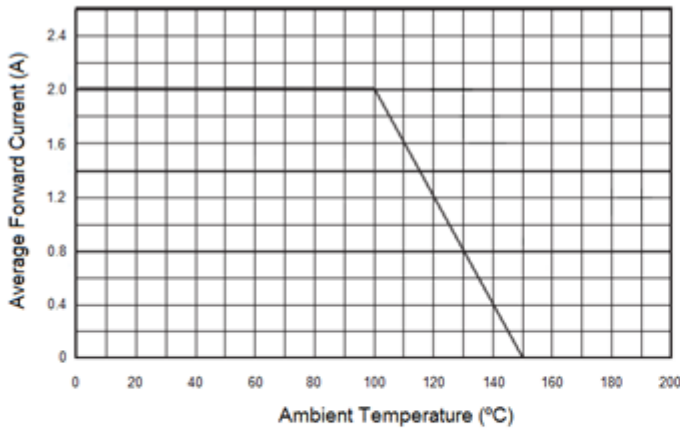
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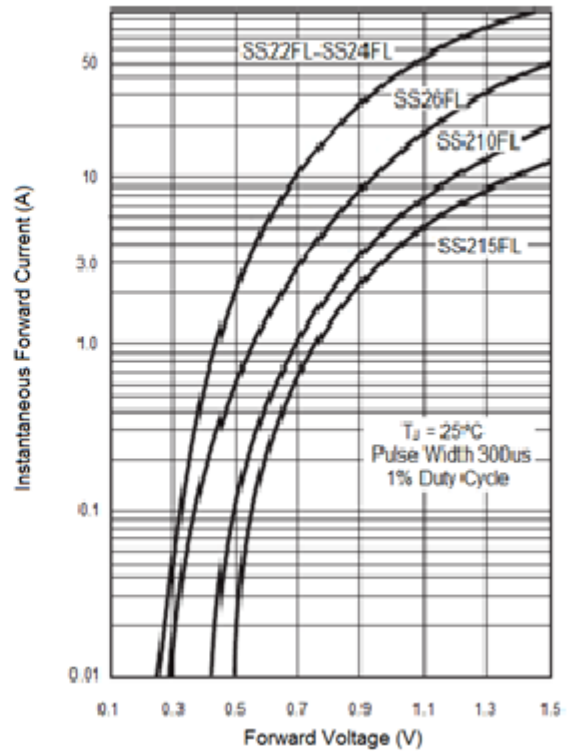
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## CHARACTERISTIC CURVES

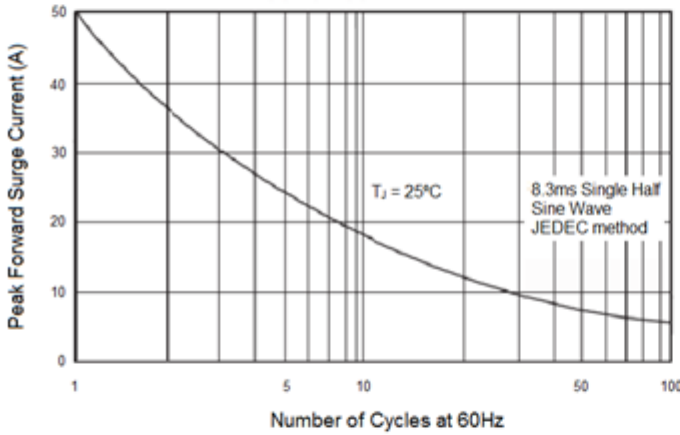
Typical Forward Current Derating Curve



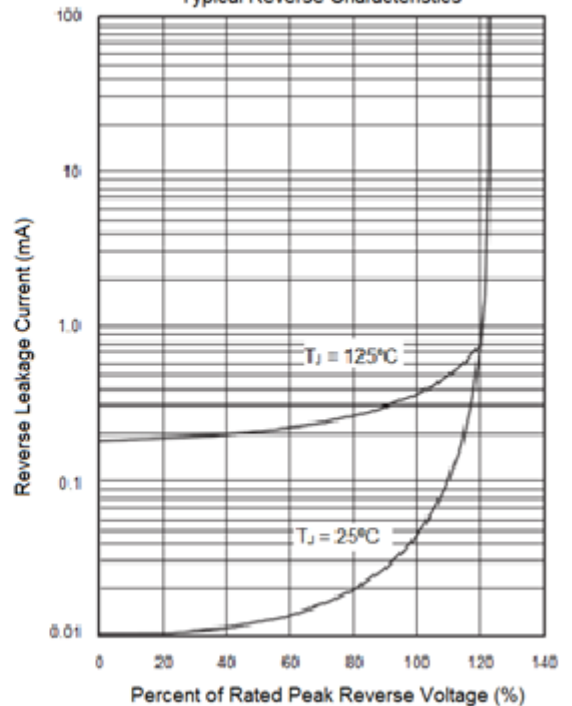
Typical Forward Characteristics



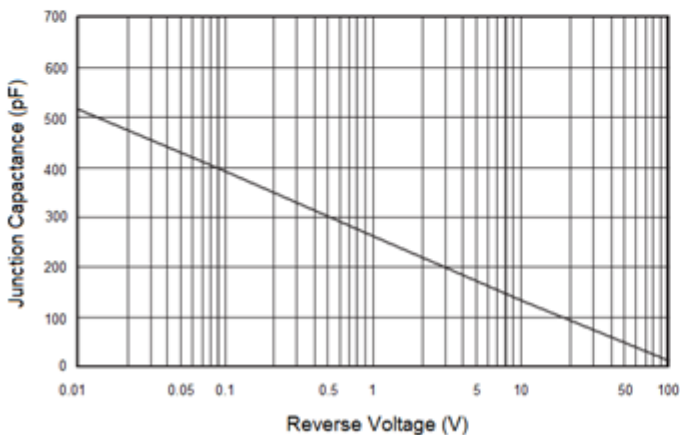
Maximum Non-Repetitive Forward Surge Current



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.