

Schottky Barrier Rectifier

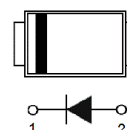
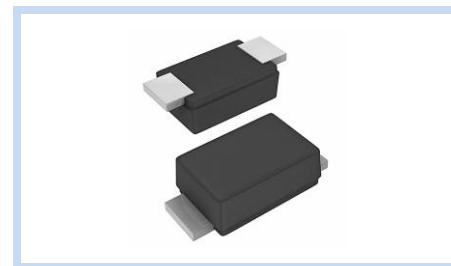
3A 40~100V SOD-123FL

SS3-FL Series

MERITEK

FEATURES

- Low Power Loss, High Efficiency
- High Current Capacity, Low Forward Voltage Drop
- Ultra High-Speed Switching
- Silicon Epitaxial Planar Chip, Metal Silicon Junction
- Application: Low-Voltage, High-Frequency Inverters, Free Wheeling, and Polarity Protection



ELECTRICAL CHARACTERISTICS

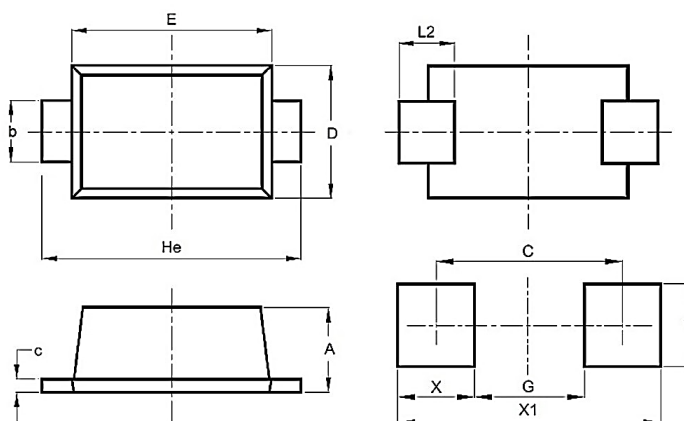
Parameter		Symbol	SS34FL	SS36FL	SS310FL	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	40	60	100	V
Maximum RMS Voltage		V_{RMS}	28	42	70	V
Maximum DC Blocking Voltage		V_{DC}	40	60	100	V
Maximum Average Forward Rectified Current (See Fig. Typical Forward Current Derating Curve)		$I_{(AV)}$	3.0			A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	60			A
Maximum Forward Voltage at 3.0A	T _A =25°C	V_F	0.55	0.72	0.85	V
Maximum Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I_R	0.5			mA
	T _A =100°C		20			
Typical Thermal Resistance		$R_{\theta JL}$	30			°C/W
Operating Junction Temperature Range		T _J	-55 to +125	-55 to +150		°C
Storage Temperature Range		T _{STG}	-55 to +150			°C

Note:

1. Ratings at 25°C ambient temperature unless otherwise specified.
2. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%
3. Thermal resistance from junction to lead mounted on PCB with 3x3mm copper pad areas ($\geq 40\mu m$ thick).

DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.80	1.20
b	0.60	1.20
c	0.05	0.25
D	1.55	1.95
E	2.50	2.90
He	3.50	3.90
L2	0.50	1.10
C	2.95	
G	1.70	
X	1.25	
X1	4.20	
Y	1.22	



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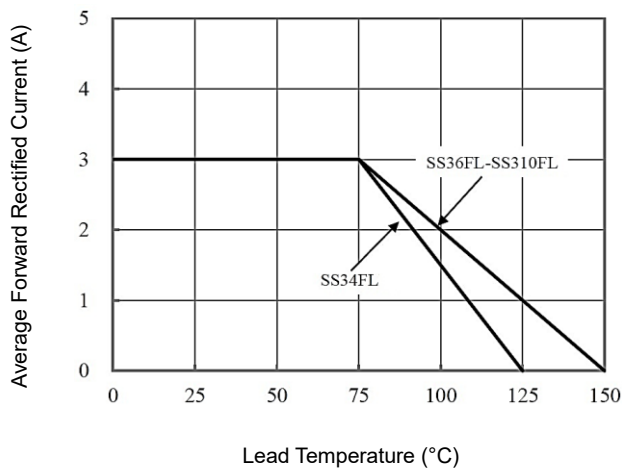
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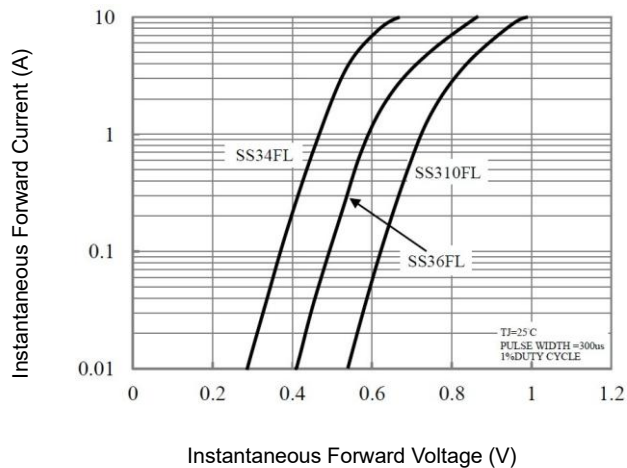
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CHARACTERISTIC CURVES

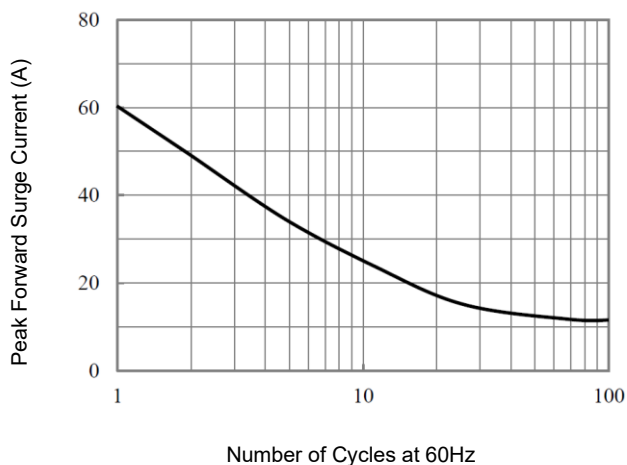
Typical Forward Current Derating Curve



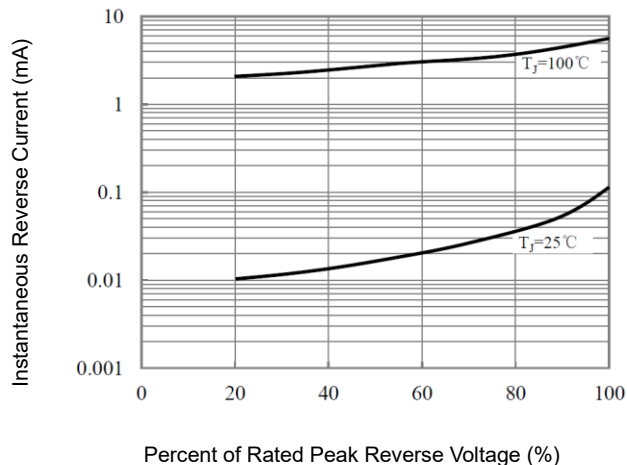
Typical Instantaneous Forward Characteristics



Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristics



*Specifications subject to change without notice.