

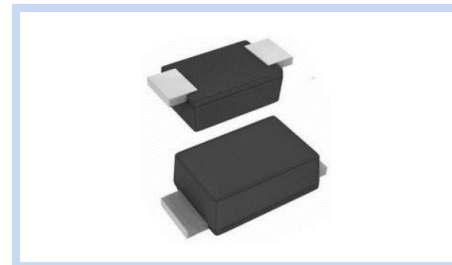
# Schottky Barrier Rectifier 2A SOD-123FL

SS2xFL Series

MERITEK

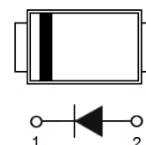
## FEATURES

- Surge Overload Rating to 40A Peak
- 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 Application



## MECHANICAL DATA

- Case: Molded Plastic, SOD-123FL
- Terminals: Solder Plated, Solderable Per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



## ELECTRICAL CHARACTERISTICS

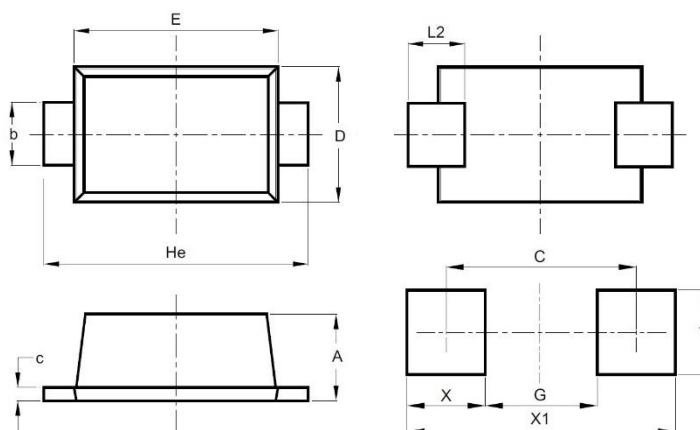
Parameter	Symbol	SS22FL	SS24FL	SS26FL	SS210FL	SS215FL	SS220FL	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	60	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current at $T_L$	$I_{(AV)}$	2.0						A
Peak Forward Surge Current (JEDEC method)	$I_{FSM}$	40.0						A
Maximum Forward Voltage at 1.0A	$V_F$	0.55	0.75	0.85	0.95		V	
Maximum Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$	0.5						mA
	$T_A=100^{\circ}C$	10.0						
Typical Thermal Resistance	$R_{\theta JL}$	30.0						$^{\circ}C/W$
Operating Junction Temperature Range	$T_J$	-55 to +125			-55 to +150			$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150						$^{\circ}C$

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. Mounted on P.C.B. with 3.0 x 3.0 mm copper pad areas ( $\geq 40 \mu m$  thick)

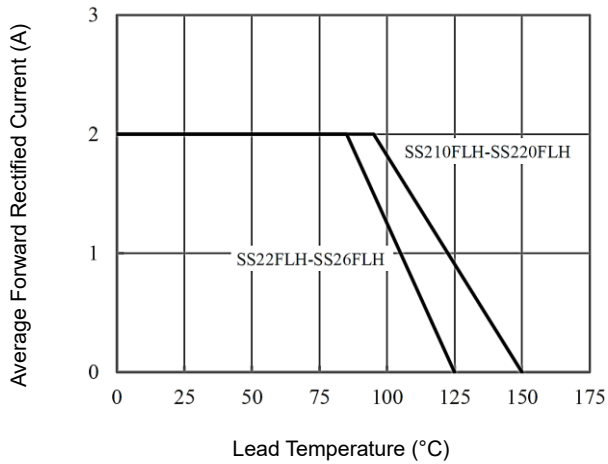
## DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.80	1.40
b	0.60	1.00
c	0.05	0.25
D	1.50	2.00
E	2.50	2.90
He	3.50	3.90
L2	0.50	1.10
C	2.95	2.95
G	1.70	1.70
X	1.25	1.25
X1	4.20	4.20
Y	1.22	1.22

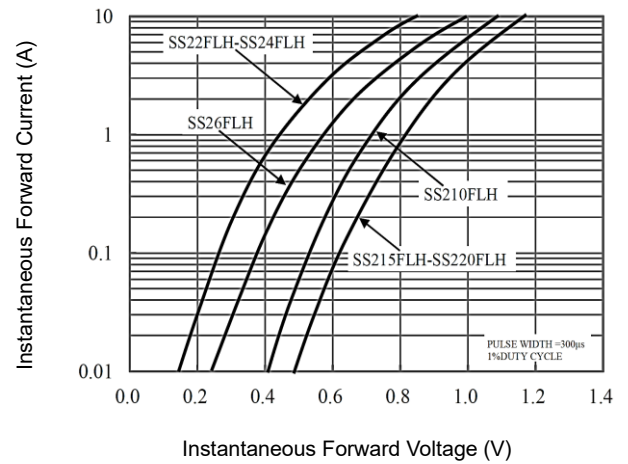


### CHARACTERISTIC CURVES

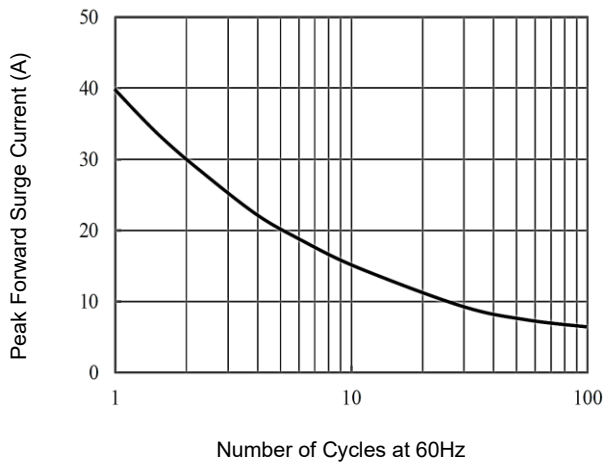
Typical Forward Current Derating Curve



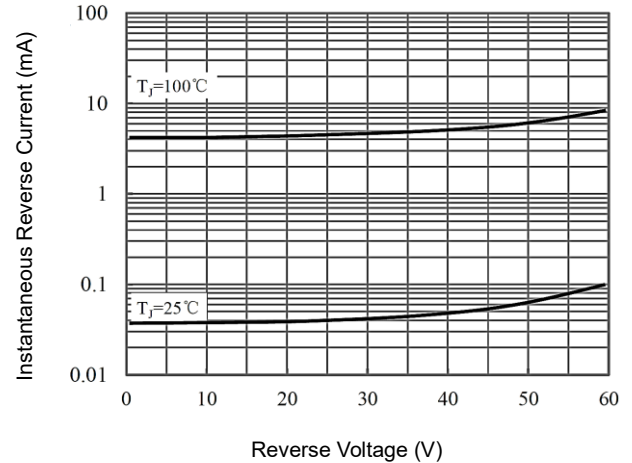
Typical Instantaneous Forward Characteristics



Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristics



\*Specifications subject to change without notice