SS1FH10-M3/H
Schottky Rectifier Diodes

Features

- Small Power Mold Type
- Low I_R
- High Reliability



SOD-123FL



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS1FH10-M3/H	SOD-123FL	L1H	3000

Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	100	V
Mean rectifying current	I_O	1	A
Peak Forward Surge Current @t=8.3 ms	I_{FSM}	50	A
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	85	°C/W
Thermal Resistance, Junction to Ambient (Note 2)	$R_{\theta JA}$	330	°C/W
Operating and Storage Temperature Range	T_{stg}, T_j	-65~+175	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit	Conditions
Maximum Instantaneous Forward Voltage	V_F	0.76 0.84 0.61 0.68	V	I_F=1A ,T_J=25°C I_F=2A ,T_J=25°C I_F=1A ,T_J=125°C I_F=2A ,T_J=125°C
Maximum Instantaneous Reverse Current (Note 3)	I_R	40	μ A	Rated dc Voltage, T_J=25°C
		0.5	mA	Rated dc Voltage, T_J=125°C

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

1. Mounted with 700 mm^2 copper pad size (Approximately 1 in^2) 1 oz FR4 Board.
2. Mounted with pad size approximately 20 mm^2 copper, 1 oz FR4 Board.
3. Pulse Test: Pulse Width ≤ 380 μs, Duty Cycle ≤ 2.0%.

Typical Characteristics

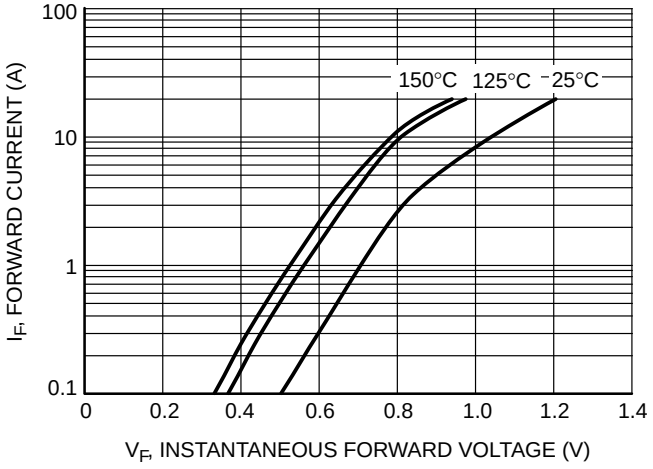


Figure 1. Typical Forward Voltage

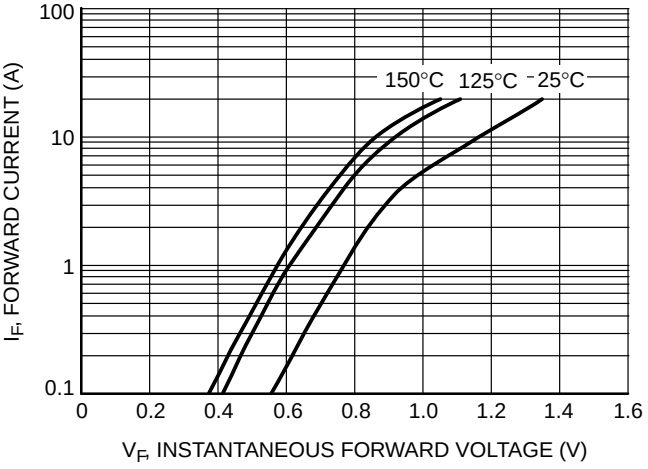


Figure 2. Maximum Forward Voltage

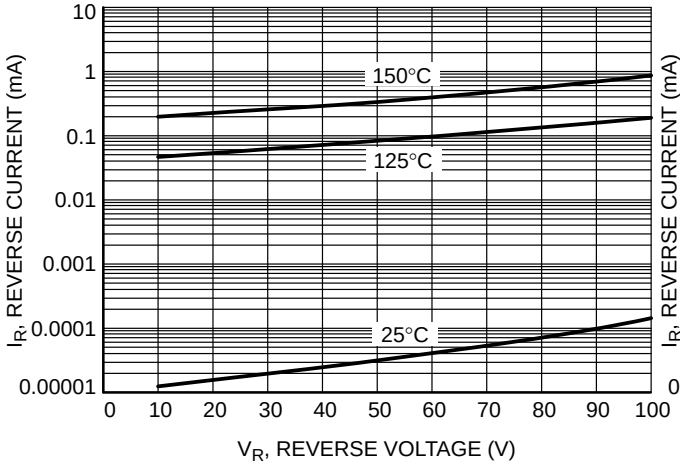


Figure 3. Typical Reverse Current

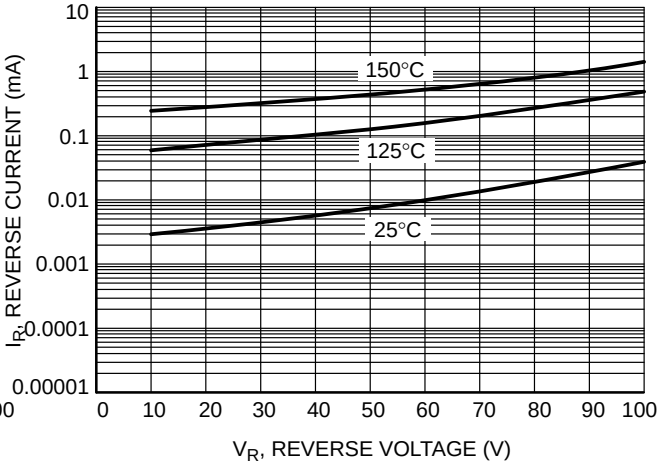


Figure 4. Maximum Reverse Current

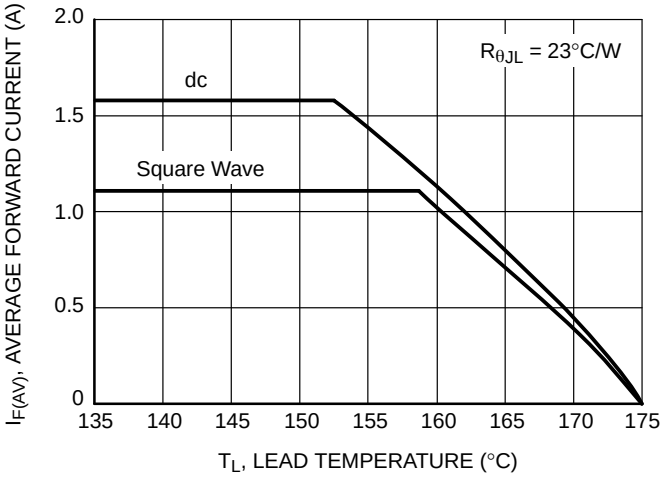


Figure 5. Current Derating

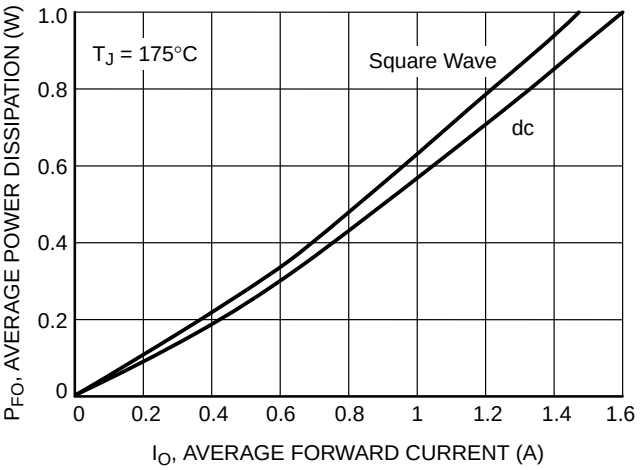
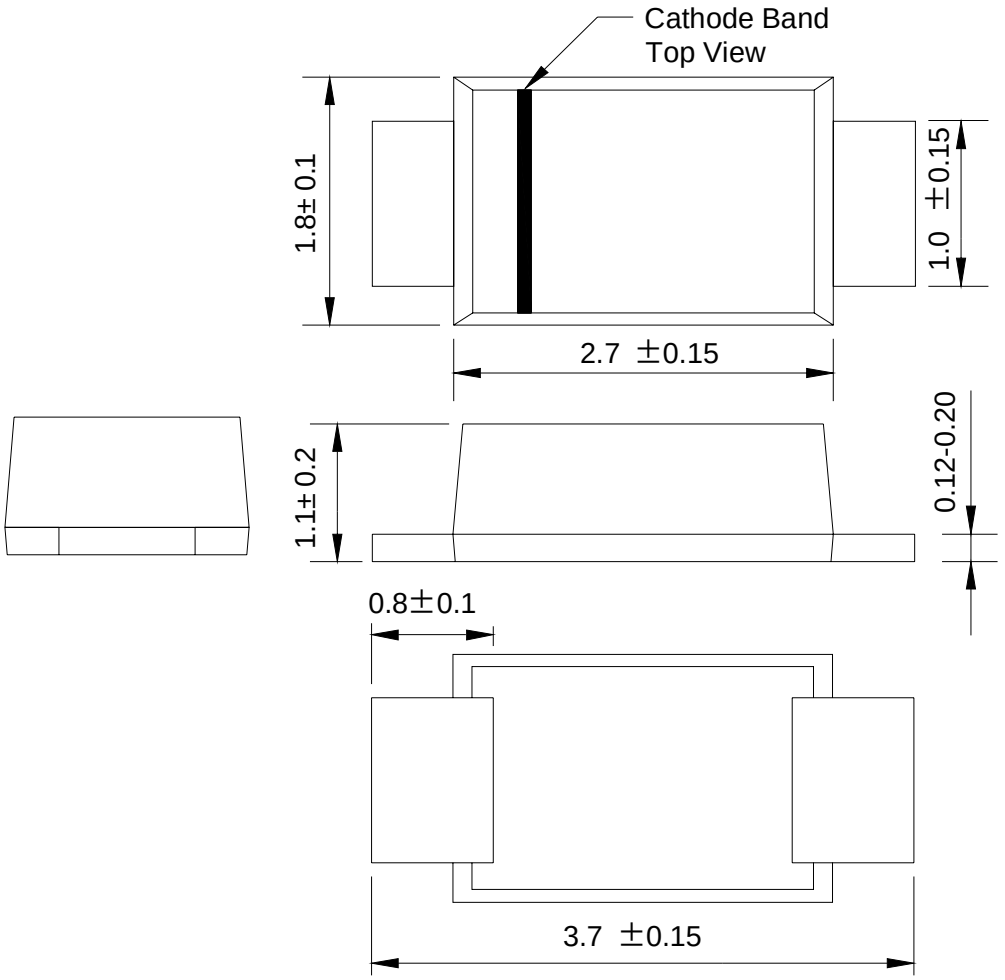


Figure 6. Forward Power Dissipation

Package Outline Dimensions

SOD-123FL



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HXY MOSFET:

HACPDQC5V0-HF HAZ4007-01H HESD36VD3B HESDSLC3V3D3B HLY323BC1524L PESDNC2XD5VBF AZ4007-01H HSG3D15B3.3MA HSEN3611D3 HSTS521050B331 PESDNC2XD5VBL PESDSC2FD5VU PJSD24CW_R1 TPSMB100CA-VR BV05C-H AQ15C-01FTG AZ4836-01L HPTVSUC3D5VB HRCLAMP3371ZCTFT HSD15C.TCT PESDLC2FD3V3BH PJEC5V0M1FN2 LM393DR-HXY RLSD32A121V TPSMB28A-VR HCEZ36V,L3F HSEN2411D3 60N06 ESD5L5.0C-HXY ESD5LM5.0C-HXY