SS1H10LW RVG
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)
SS1H10LW RVG	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

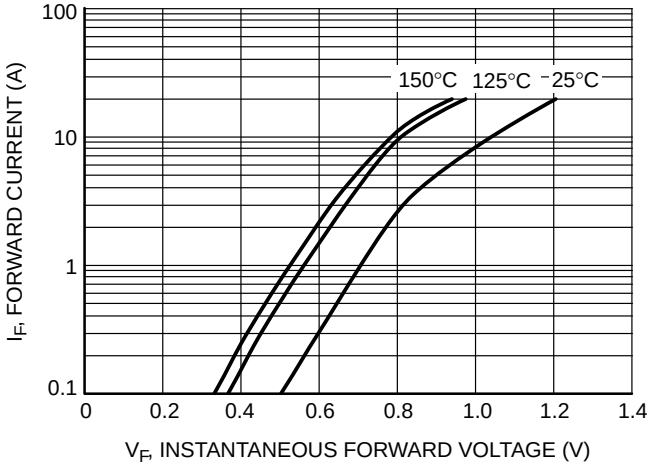


Figure 1. Typical Forward Voltage

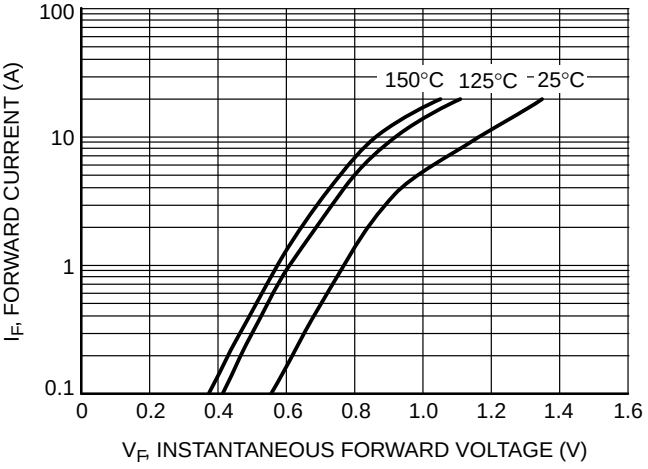


Figure 2. Maximum Forward Voltage

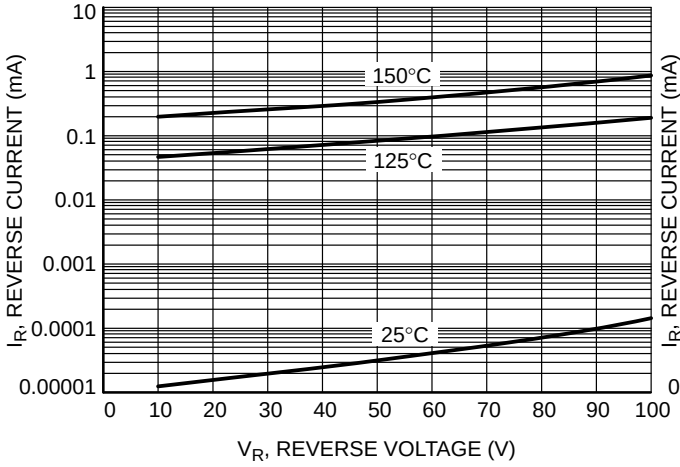


Figure 3. Typical Reverse Current

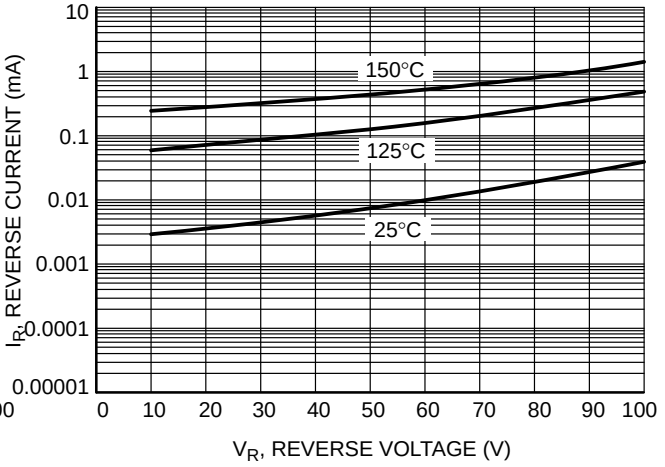


Figure 4. Maximum Reverse Current

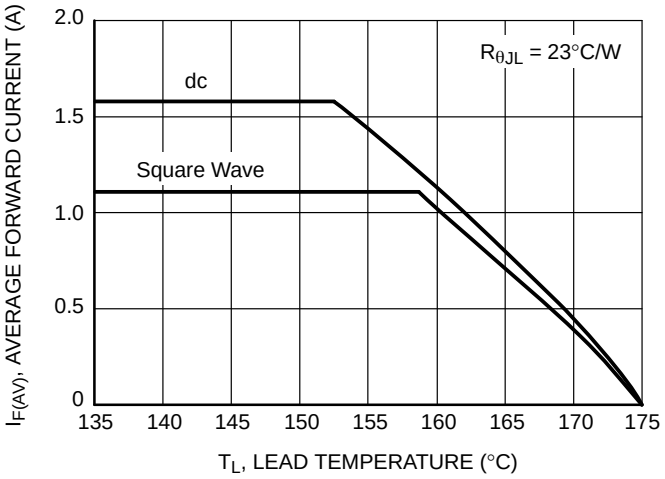


Figure 5. Current Derating

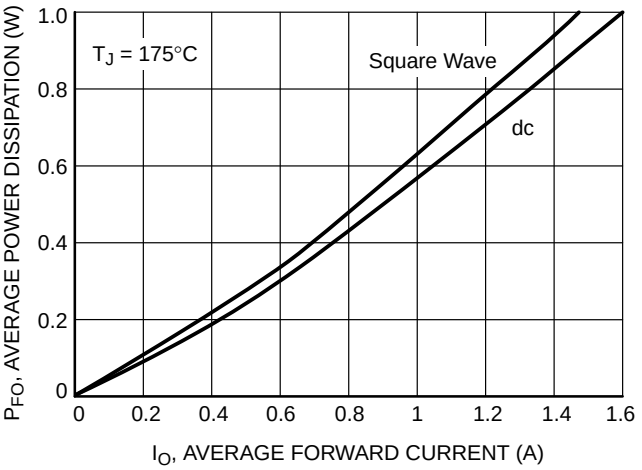
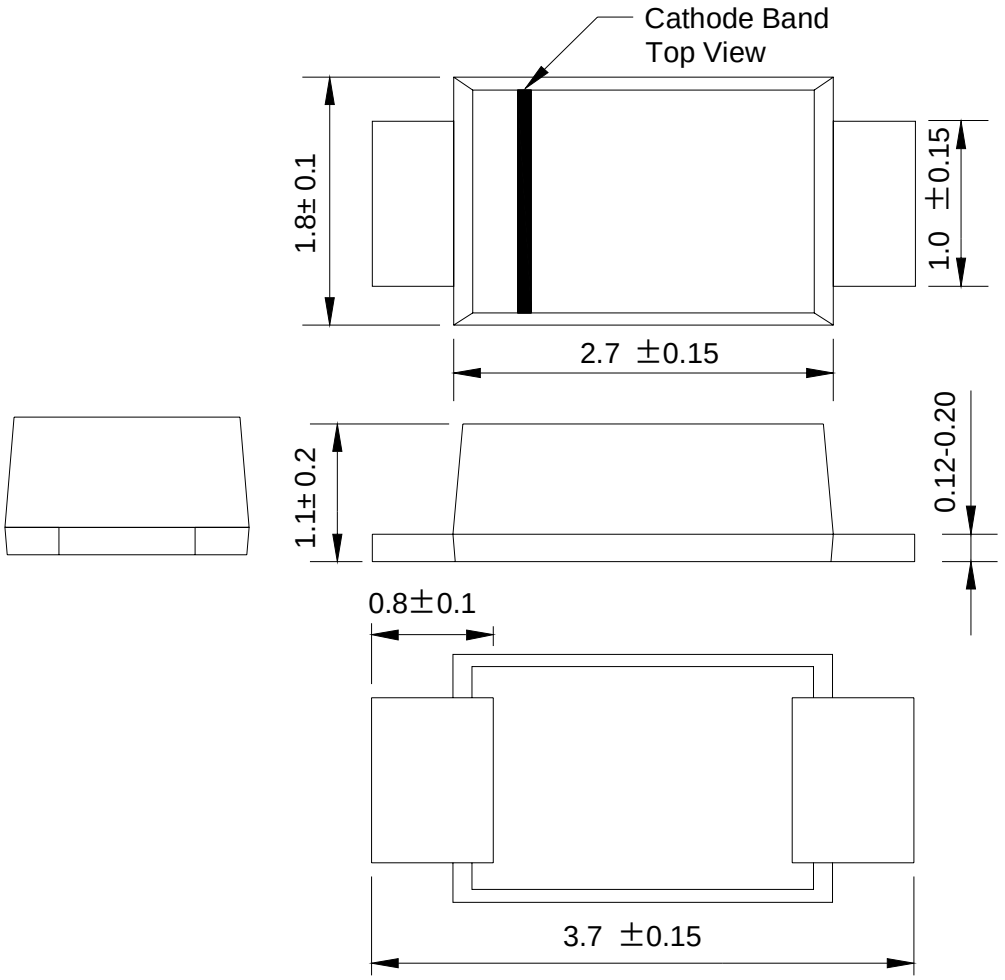


Figure 6. Forward Power Dissipation

Package Outline Dimensions

SOD-123FL



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HXY MOSFET:

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