



GS1010FL-LE

SURFACE GENERAL PURPOSE RECTIFIERS

Voltage

1000 V

Current

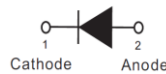
1 A

Features

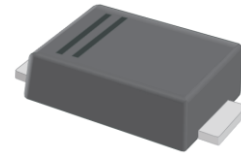
- For surface mounted applications in order to optimize board space
- Low profile package
- Ideal for automated placement
- High temperature soldering : 260°C/10 seconds at terminals
- Glass Passivated Chip Junction
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

Mechanical Data

- Case: Molded plastic, SOD-123FL-1
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Approx. Weight: 0.00054 ounces, 0.0155 grams
- Marking: M7W



SOD-123FL-1



Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V	
Maximum rms voltage	V_{RMS}	700	V	
Maximum dc blocking voltage	V_R	1000	V	
Maximum average forward current	$I_{F(AV)}$	1	A	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	25	A	
Typical forward voltage at 1A	V_F	1.1	V	
Maximum dc reverse current at rated dc blocking voltage	I_R	5	μA	
Typical junction capacitance Measured at 1MHz and applied $V_R=4\text{V}$	C_J	9	pF	
Typical thermal resistance	(Note 1)	$R_{\theta JA}$	200	$^{\circ}\text{C/W}$
	(Note 2)	$R_{\theta JC}$	20	
Operating and storage temperature range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$	

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area



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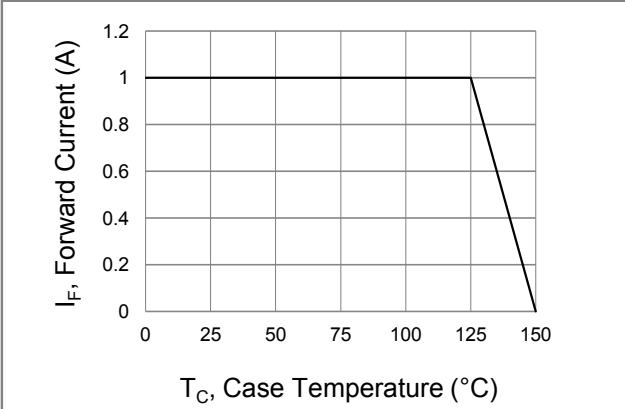


Fig.1 Forward Current Derating Curve

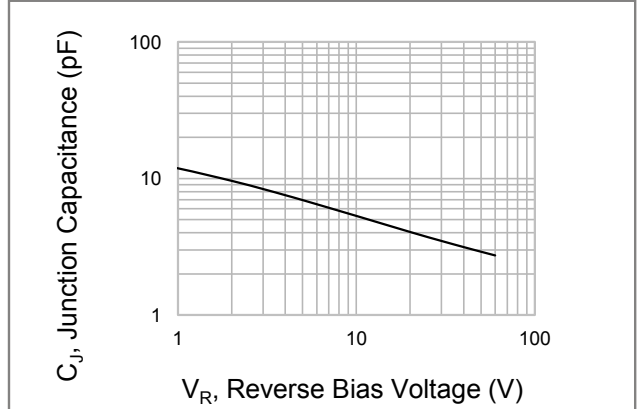


Fig.2 Typical Junction Capacitance

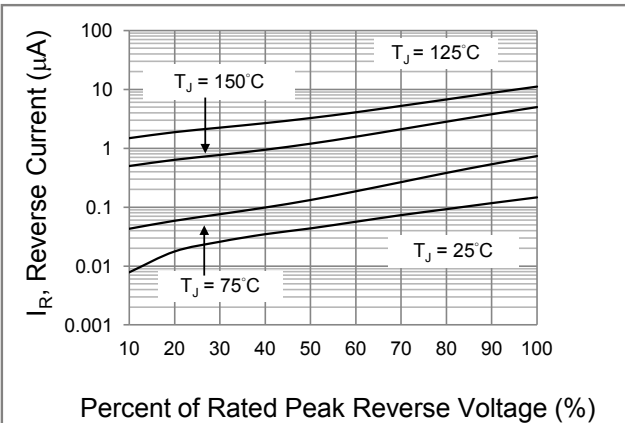


Fig.3 Typical Reverse Characteristics

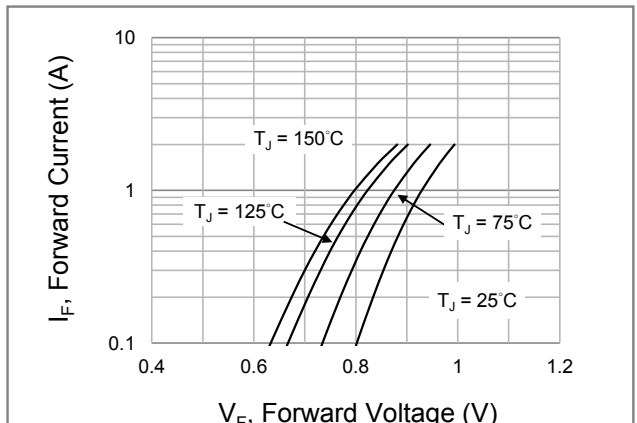
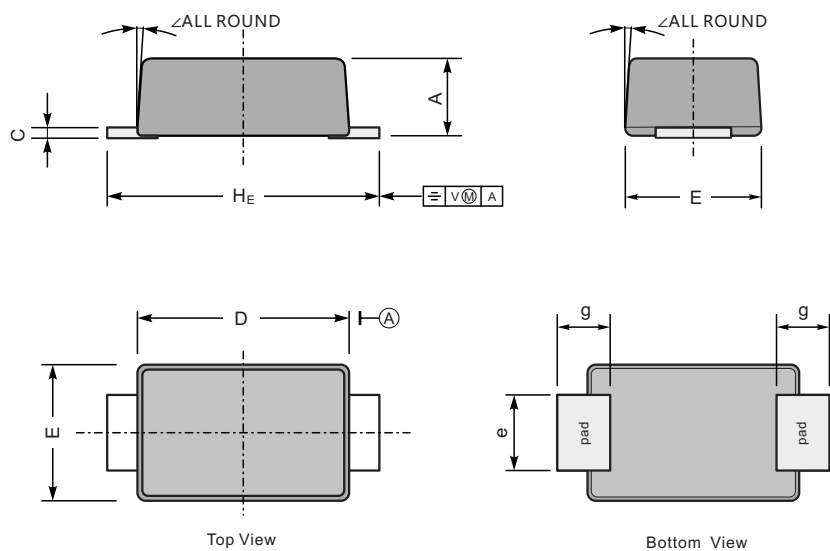


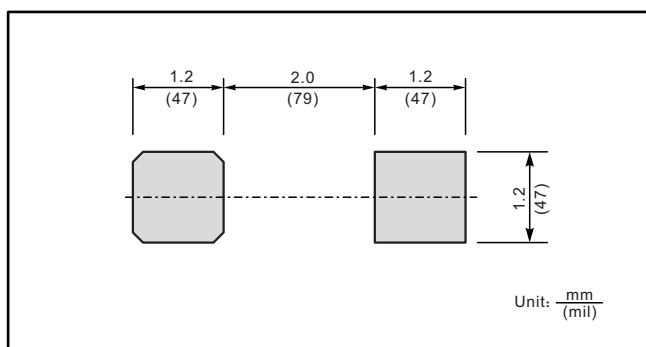
Fig.4 Typical Forward Characteristics



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UNIT		A	C	D	E	e	g	H _E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	





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