#### 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 •

Current

1 A

SURFACE GENERAL PURPOSE RECTIFIERS

- Approx. Weight: 0.00054 ounces, 0.0155 grams
- Marking: M7W

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

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		Vrrm	1000	V
Maximum rms voltage		Vrms	700	V
Maximum dc blocking voltage		VR	1000	V
Maximum average forward current		lF(AV)	1	А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	25	А
Typical forward voltage at 1A		VF	1.1	V
Maximum dc reverse current at rated dc blocking voltage		lr	5	μA
Typical junction capacitance Measured at 1MHz and applied V <sub>R</sub> =4V		CJ	9	pF
Typical thermal resistance	(Note 1)	Reja	200	°C/W
	(Note 2)	Rejc	20	
Operating and storage temperature range		Tj, Tstg	-55 to +150	°C

Anode

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

2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area

Cathode



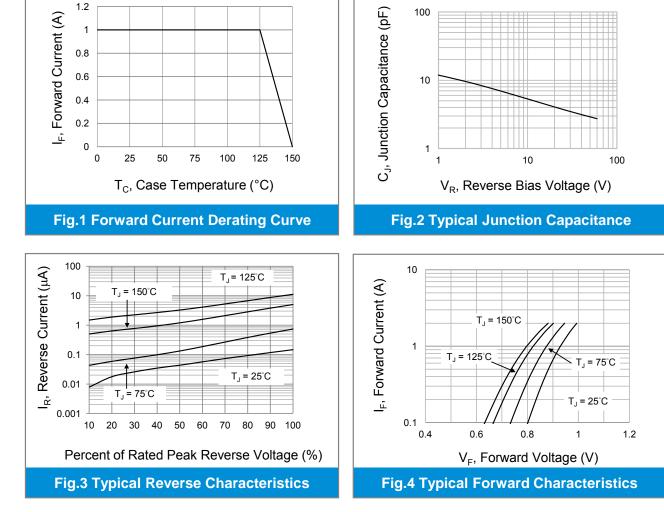
Voltage

GS1010FL-LE

1000 V









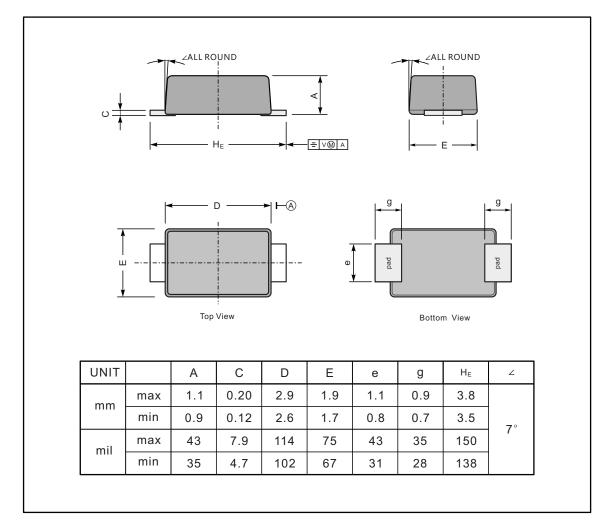
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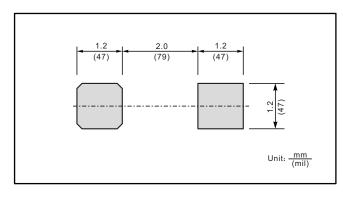


# GS1010FL-LE

#### Package Outline



#### Pad Layout







## GS1010FL-LE

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