

### SURFACE GENERAL PURPOSE RECTIFIERS

50 to 1000 Volt CURRENT 1 Ampere

#### FEATURES

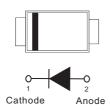
VOLTAGE

• 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
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **MECHANICAL DATA**

- Case: SOD-123FL, Molded plastic over passivated junction
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- Standard Packaging: 8mm tape (EIA-481)
- Polarity: Color band denotes cathode end



SOD-123FL

0.115(2.90

0.145(3.70)

Unit : inch(mm)

■ 0.044(1.10) 0.035(0.90)

0.008(0.20

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER		GS1000FL-AU	GS1001FL-AU	GS1002FL-AU	GS1004FL-AU	GS1006FL-AU	GS1008FL-AU	GS1010FL-AU	UNITS
Marking Code		1A	1B	1D	1G	1J	1K	1 M	
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	640	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current		1							A
Peak One Cycle Surge Forward Current (non-repetitive)	I <sub>fsm</sub>	30 (60Hz)						A	
aximum Forward Voltage at 1A (Note 1) V <sub>F</sub> 1.1					V				
Maximum DC Reverse Current at Rated DC Blocking TA=25°C Voltage TA=125°C	I <sub>R</sub>	1 50						μΑ	
Typical Junction Capacitance at 4V, MHz	C,	4					pF		

#### **ELECTRICAL CHARACTERISTICS**

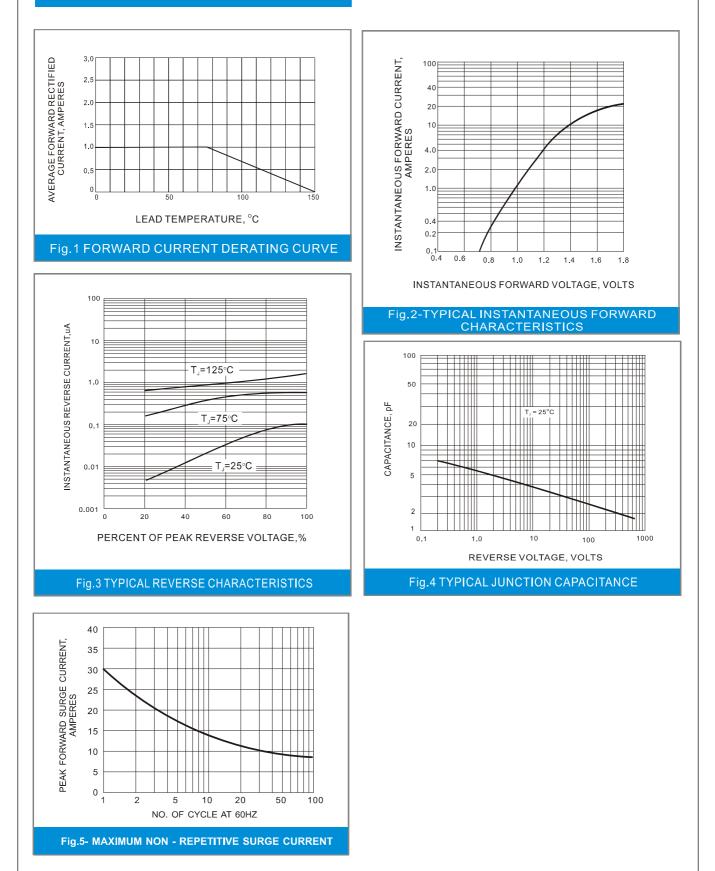
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	G S 1 0 0 0 F L - A U	G \$ 1001 F L - A U	G S 1 0 0 2 F L - A U	GS1004FL-AU	GS1006FL-AU	GS1008 FL-AU	GS1010FL-AU	UNITS
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	65							°C / W
Operating and Storage Temperature Range	$T_{j},T_{stg}$	-50 TO +150							°C

NOTES:1.Pulse test : 300us pulse width, 1% duty cycle. 2.Soldering land: 6mm x 6mm

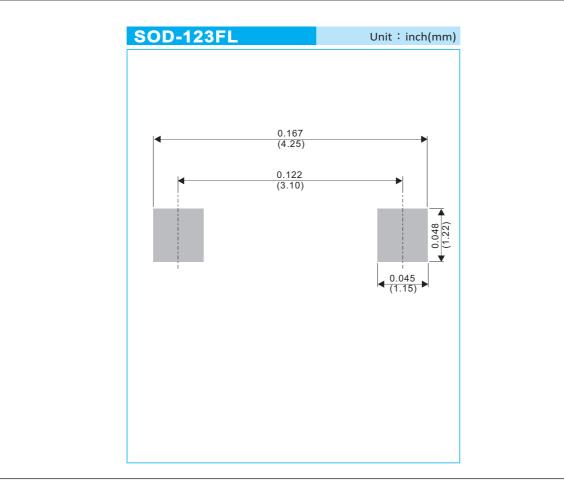


### **RATING AND CHARACTERISTIC CURVES**





#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

- Packing information
  - T/R 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



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