

SURFACE GENERAL PURPOSE RECTIFIERS

50 to 1000 Volt CURRENT 1 Ampere

FEATURES

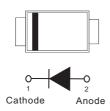
VOLTAGE

• 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
- 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)

0.030(0.75) 0.017(0.45) 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 | GS1001FL | GS1002FL | GS1004FL | GS1006FL | GS1008FL | GS1010FL | UNITS |
|---|--------------------|--------------------|----------|----------|----------|----------|----------|----------|-------|
| Marking Code | | 1A | 1B | 1D | 1G | 1J | 1K | 1M | |
| Maximum Recurrent Peak Reverse Voltage | | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | | 35 | 70 | 140 | 280 | 420 | 640 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current | I _{F(AV)} | 1 | | | | | | A | |
| Peak One Cycle Surge Forward Current (non-repetitive) | I _{fsm} | 30 (60Hz) | | | | | | | А |
| Maximum Forward Voltage at 1A (Note 1) | V _F | V _F 1.1 | | | | | v | | |
| Maximum DC Reverse Current at Rated DC Blocking TA=25°C Voltage TA=125°C | I _R | 1 50 | | | | | μΑ | | |
| Typical Junction Capacitance at 4V, MHz | C | 4 | | | | | | рF | |

ELECTRICAL CHARACTERISTICS

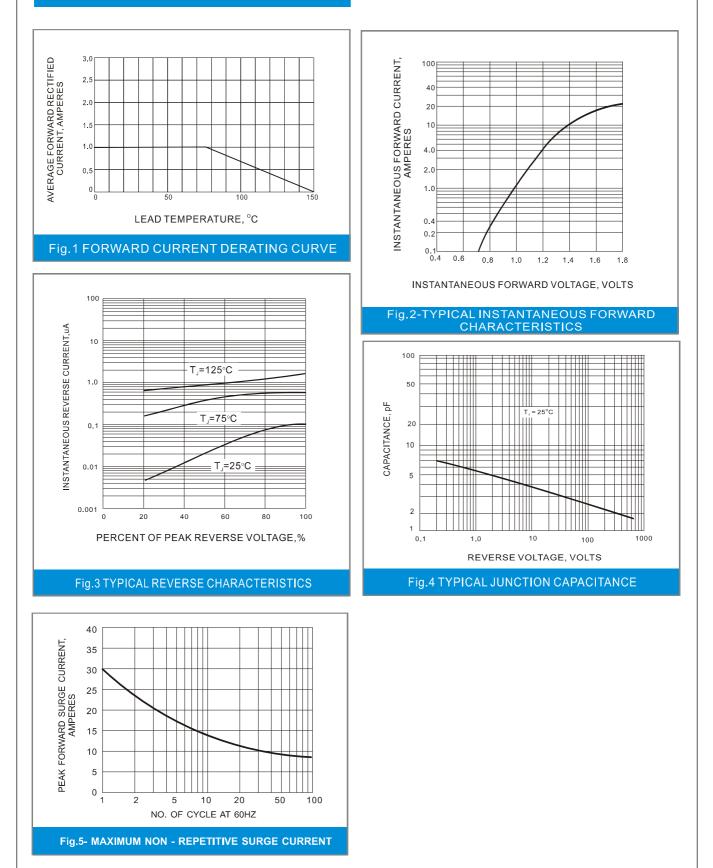
Ratings at 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | GS1000FL | GS1001FL | GS1002FL | GS1004FL | GS1006FL | GS1008FL | GS1010FL | 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

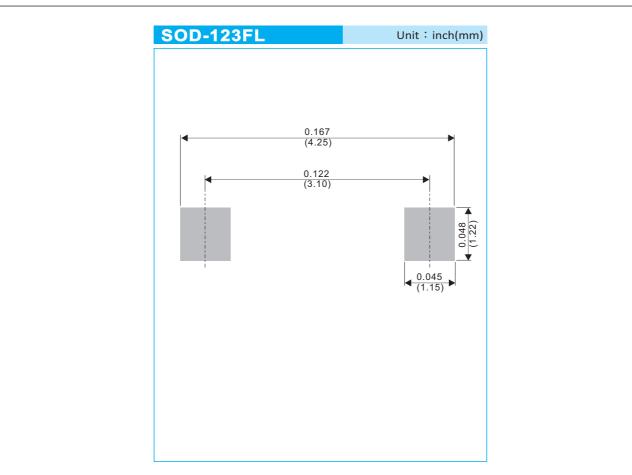


RATING AND CHARACTERISTIC CURVES





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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