# GS1504FL~GS1510FL

## SURFACE GENERAL PURPOSE RECTIFIERS

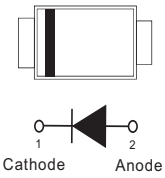
**VOLTAGE** 400~1000 Volts **CURRENT** 1.5 Amperes

## FEATURES

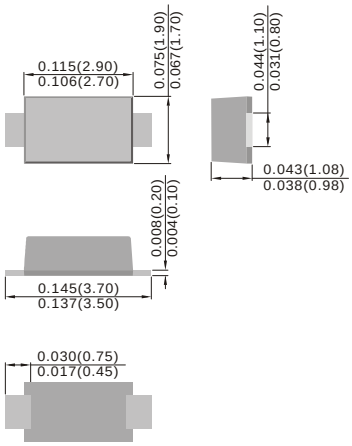
- For surface mounted applications
- Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

## MECHANICAL DATA

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




**SOD-123FL** Unit : inch(mm)




## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | GS1504FL | GS1506FL | GS1508FL | GS1510FL | UNITS |
|---|---|---|---|---|---|---|
| Marking Code | | 2G | 2J | 2K | 2M | |
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current | $I_{F(AV)}$ | 1.5 | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | $I_{FSM}$ | 50 | | | | A |
| Maximum Forward Voltage at 1.5A | $V_F$ | 1.1 | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$ | 1 | | | | uA |
| Typical Junction Capacitance at 4V, 1MHz | $C_J$ | 10 | | | | pF |
| Typical Junction Resistance (Note 1)<br>(Note 2) | $R_{\theta JL}$<br>$R_{\theta JA}$ | 35<br>200 | | | | °C / W |
| Operating and Storage Temperature Range | $T_J$,$T_{STG}$ | -55 to +150 | | | | °C |

NOTES : 1.Mounted on an FR4 PCB, single-sided copper, with 100cm$^2$ copper pad area
2.Mounted on an FR4 PCB, single-sided copper, mini pad.

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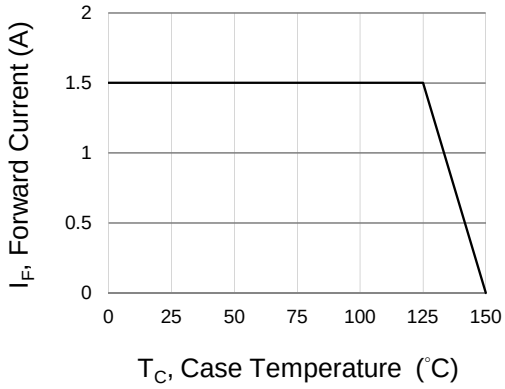



**Fig.1 Forward Current Derating Curve**

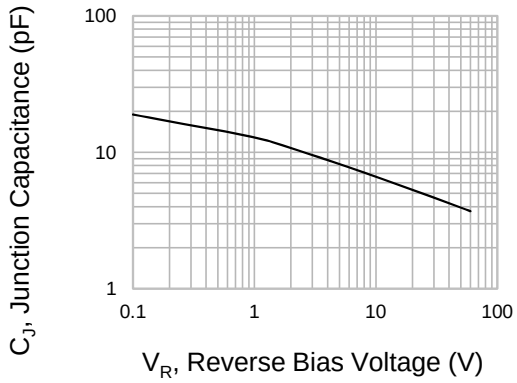



**Fig.2 Typical Junction Capacitance**

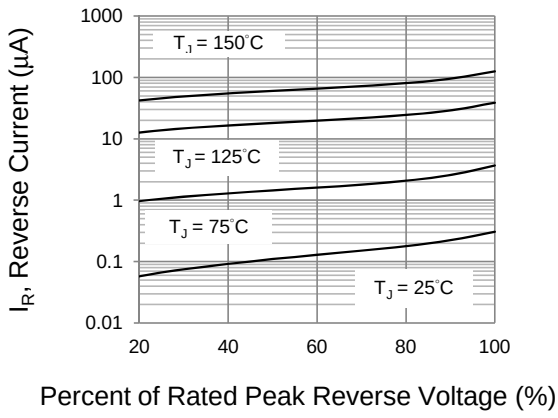



**Fig.3 Typical Reverse Characteristics**

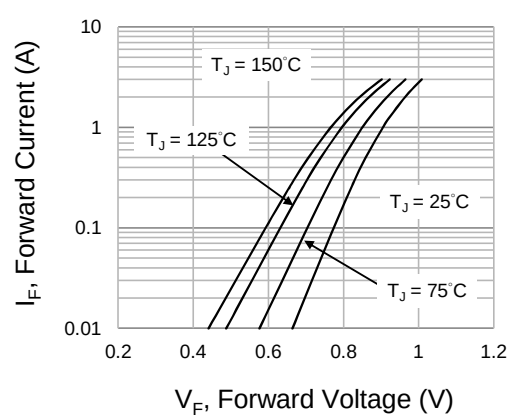
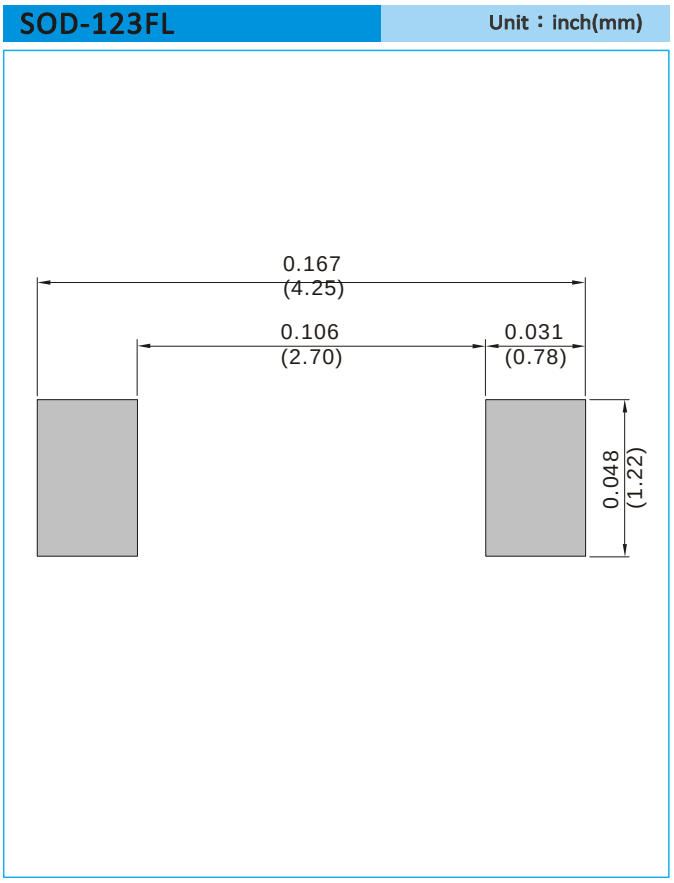



**Fig.4 Typical Forward Characteristics**

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## 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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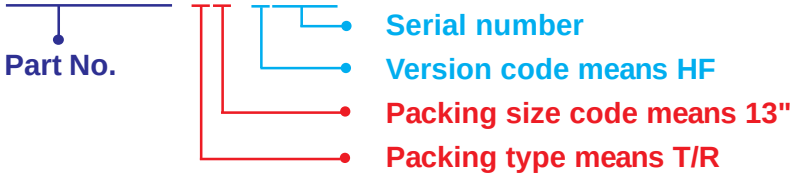
**Part No_packing code_Version**

GS1504FL_R1_00001

GS1504FL_R2_00001

**For example :**

**RB500V-40_R2_00001**




| Packing Code XX | | | | Version Code XXXXX | | |
|---|---|---|---|---|---|---|
| Packing type | 1st Code | Packing size code | 2nd Code | HF or RoHS | 1st Code | 2nd~5th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |

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