



# THE DATASHEET OF GS2B-LTP





Micro Commercial Components



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# GS2A-L THRU GS2M-L

## Features

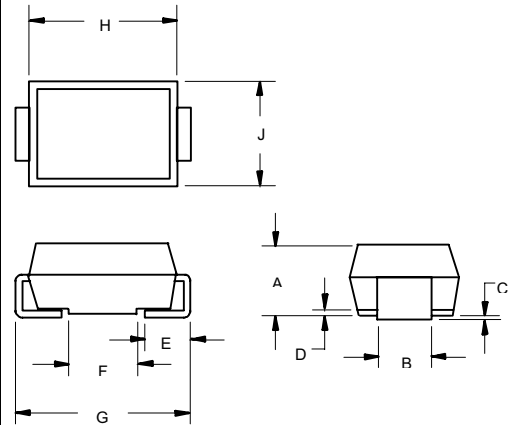
- Lead Free Finish/RoHS Compliant(Note1) ("P" Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 20°C/W Junction To Lead

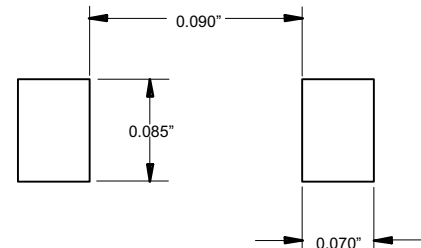
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| GS2A-L          | GS2A           | 50V                                    | 35V                 | 50V                         |
| GS2B-L          | GS2B           | 100V                                   | 70V                 | 100V                        |
| GS2D-L          | GS2D           | 200V                                   | 140V                | 200V                        |
| GS2G-L          | GS2G           | 400V                                   | 280V                | 400V                        |
| GS2J-L          | GS2J           | 600V                                   | 420V                | 600V                        |
| GS2K-L          | GS2K           | 800V                                   | 560V                | 800V                        |
| GS2M-L          | GS2M           | 1000V                                  | 700V                | 1000V                       |

## DO-214AC (SMA) (LEAD FRAME)



| DIM | INCHES |      | MM   |      | NOTE |
|-----|--------|------|------|------|------|
|     | MIN    | MAX  | MIN  | MAX  |      |
| A   | .079   | .096 | 2.00 | 2.44 |      |
| B   | .050   | .064 | 1.27 | 1.63 |      |
| C   | .002   | .008 | .05  | .20  |      |
| D   | ---    | .02  | ---  | .51  |      |
| E   | .030   | .060 | .76  | 1.52 |      |
| F   | .065   | .091 | 1.65 | 2.32 |      |
| G   | .189   | .220 | 4.80 | 5.59 |      |
| H   | .157   | .181 | 4.00 | 4.60 |      |
| J   | .090   | .115 | 2.25 | 2.92 |      |

### SUGGESTED SOLDER PAD LAYOUT



## Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |             |                                      |   |
|---|-------------|--------------------------------------|---|
| Average Forward current                                 | $I_{F(AV)}$ | 2.0A                                 | $T_A = 110^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$   | 50A                                  | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.1V                                 | $I_{FM} = 2.0A;$<br>$T_A = 25^\circ\text{C}^*$        |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5 $\mu\text{A}$<br>125 $\mu\text{A}$ | $T_A = 25^\circ\text{C}$<br>$T_A = 125^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$       | 20pF                                 | Measured at 1.0MHz, $V_R = 4.0V$                      |

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

# GS2A-L thru GS2M-L

Figure 1  
Typical Forward Characteristics

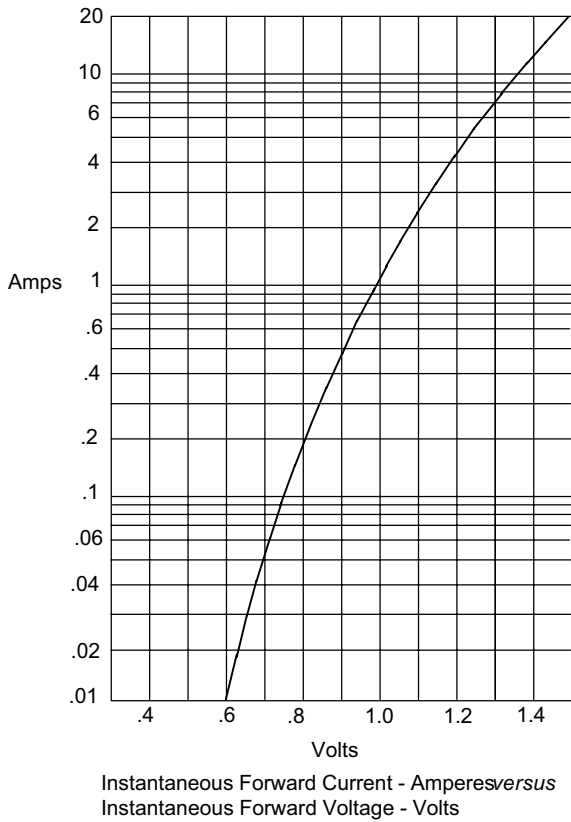


Figure 3  
Maximum Overload Surge Current

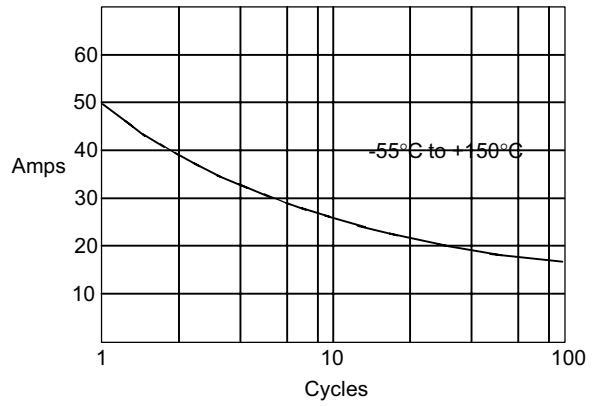


Figure 4  
Forward Derating Curve

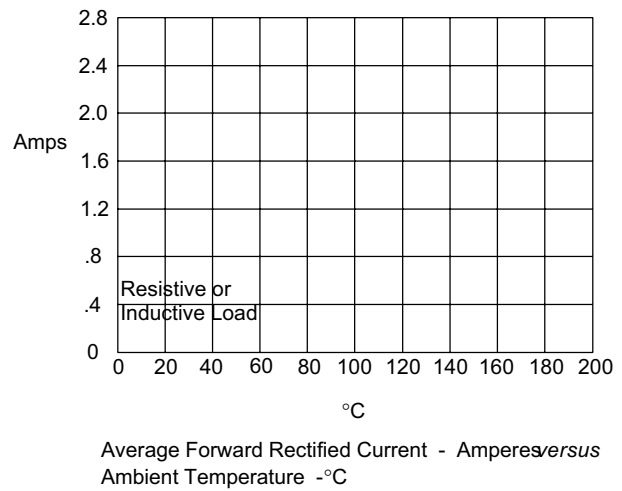
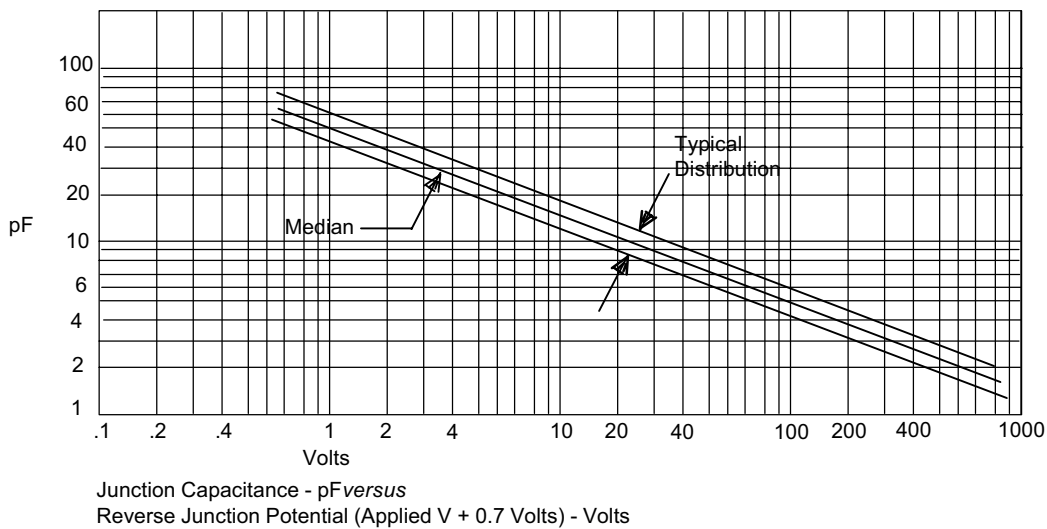


Figure 2  
Junction Capacitance





TM

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## Ordering Information :

| Device            | Packing                 |
|-------------------|-------------------------|
| GS2A-LTP~GS2M-LTP | Tape&Reel: 7.5Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. GS2A-LTP-HF-GS2M-LTP-HF

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