

**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<br>Part<br>Number | Device<br>Marking | Maximum<br>Recurrent<br>Peak Reverse<br>Voltage | Maximum<br>RMS<br>Voltage | Maximum<br>DC<br>Blocking<br>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                                |

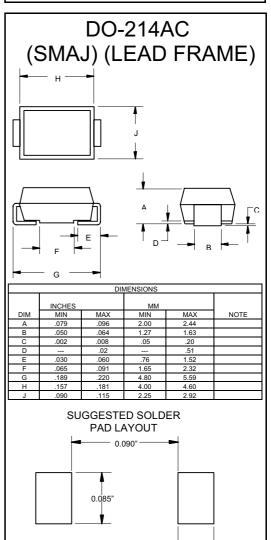
#### Flectrical Characteristics @ 25°C Unless Otherwise Specified

| 16CU ICAI GIIAI ACIGI 13UC3 🤓 20 - C UIIIG33 UUIGI WI3G 3pGCIII  |                    |              |   |  |
|--|--------------------|--------------|---|--|
| Average Forward current  | I <sub>F(AV)</sub> | 2.0A         | T <sub>A</sub> = 110°C                            |  |
| Peak Forward Surge<br>Current                                    | I <sub>FSM</sub>   | 50A          | 8.3ms, half sine                                  |  |
| Maximum<br>Instantaneous<br>Forward Voltage                      | $V_{F}$            | 1.1V         | I <sub>FM</sub> = 2.0A;<br>T <sub>A</sub> = 25°C* |  |
| Maximum DC<br>Reverse Current At<br>Rated DC Blocking<br>Voltage | I <sub>R</sub>     | 5μA<br>125μA | T <sub>A</sub> = 25°C<br>T <sub>A</sub> = 125°C   |  |
| Typical Junction<br>Capacitance                                  | CJ                 | 20pF         | Measured at 1.0MHz, V <sub>R</sub> =4.0V          |  |

<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

# 2.0 Amp Glass Passivated Rectifier 50 to 1000 Volts



0.070"

www.mccsemi.com

Revision: B 2013/01/01

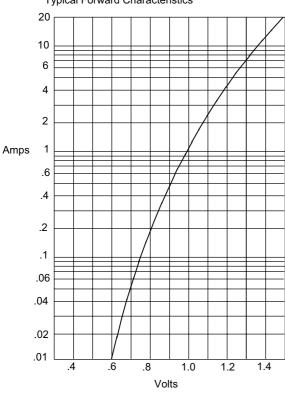
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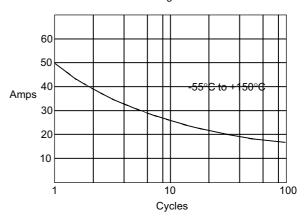
#### **Micro Commercial Components**

Figure 1 **Typical Forward Characteristics** 



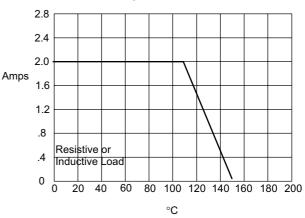
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3 Maximum Overload Surge Current



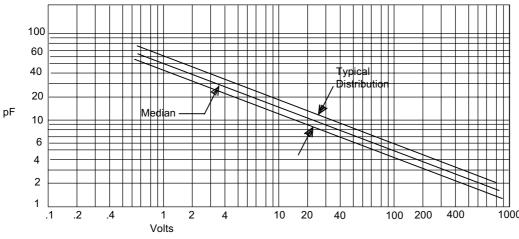
Peak Forward Current - Amperesversus Number of Cycles at 60Hz

Figure 4 Forward Derating Curve



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 2 Junction Capacitance



Junction Capacitance - pFversus Reverse Junction Potential (Applied V + 0.7 Volts) - Volts



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### Ordering Information:

| Device         | Packing                 |
|----------------|-------------------------|
| Part Number-TP | Tape&Reel: 7.5Kpcs/Reel |

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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