



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

GS1A-L
THRU
GS1M-L

Features

- Halogen free available upon request by adding suffix "-HF"
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Extremely Low Thermal Resistance
High Temp Soldering: 260°C for 10 Seconds At Terminals
Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C
Maximum Thermal Resistance; 15°C/W Junction To Lead

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include GS1A-L through GS1M-L.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, and Typical Junction Capacitance.

\*Pulse test: Pulse width 300 µsec, Duty cycle 2%
Note 1: High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

1.0 Amp Glass
Passivated Rectifier
50 to 1000 Volts

DO-214AC
(SMA) (LEAD FRAME)

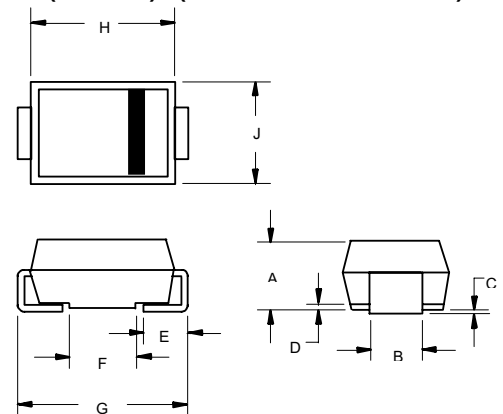
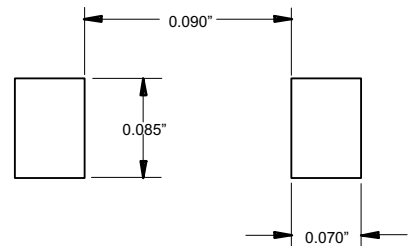


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Dimensions A through J.

SUGGESTED SOLDER PAD LAYOUT



# GS1A-L thru GS1M-L

Figure 1  
Typical Forward Characteristics

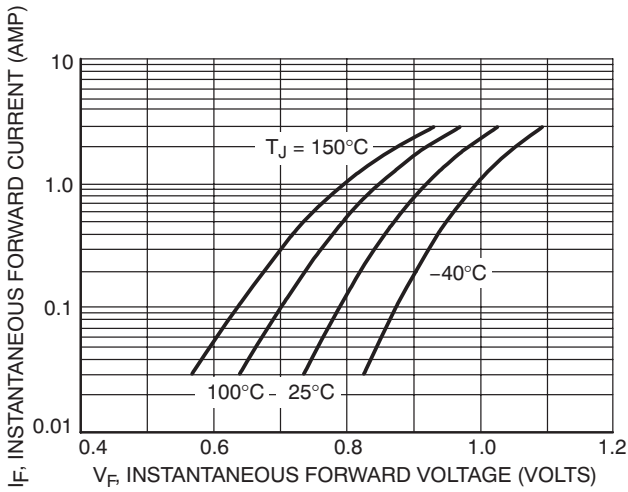
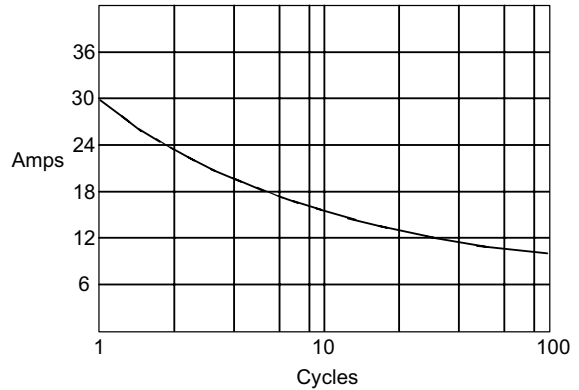
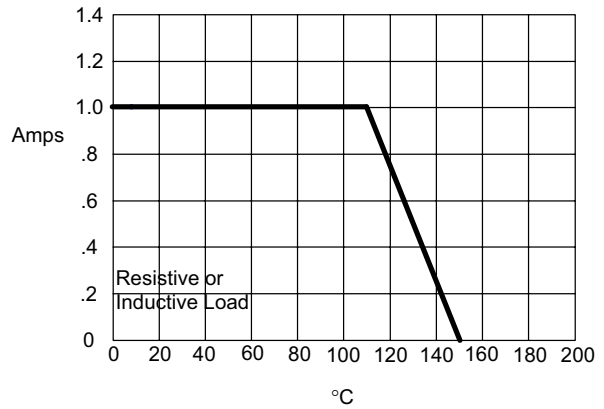


Figure 3  
Maximum Overload Surge Current



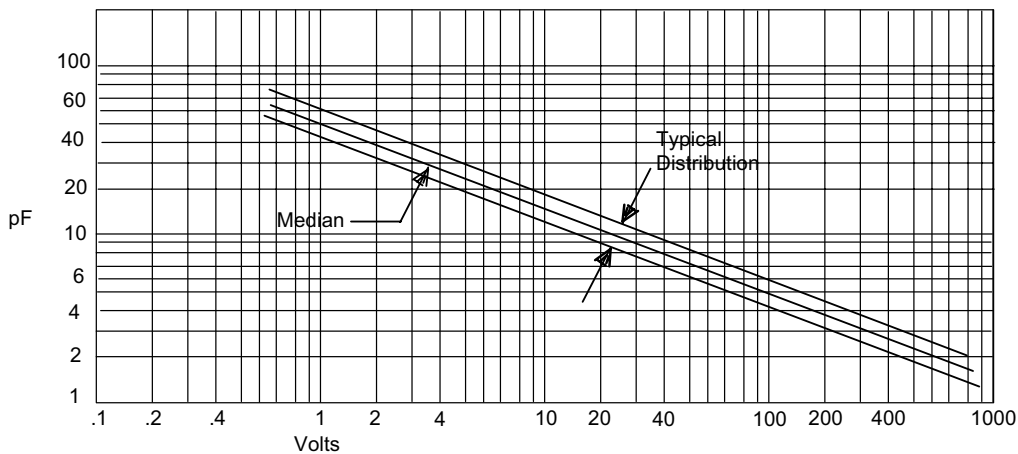
Peak Forward Current - Amperes versus  
Number of Cycles at 60Hz

Figure 4  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Lead Temperature - °C

Figure 2  
Junction Capacitance



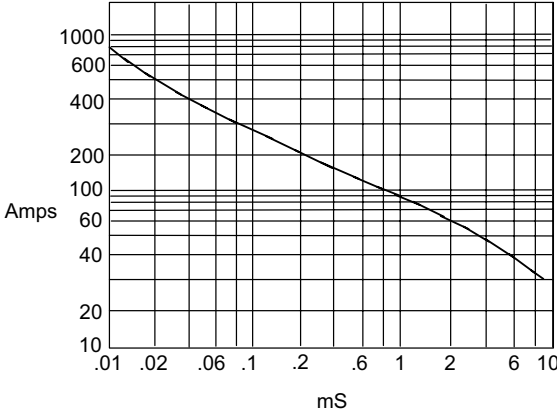
Junction Capacitance - pF versus  
Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

# GS1A-L thru GS1M-L



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Figure 5  
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus  
Pulse Duration - Milliseconds (mS)



TM

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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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