



Micro Commercial Components



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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)

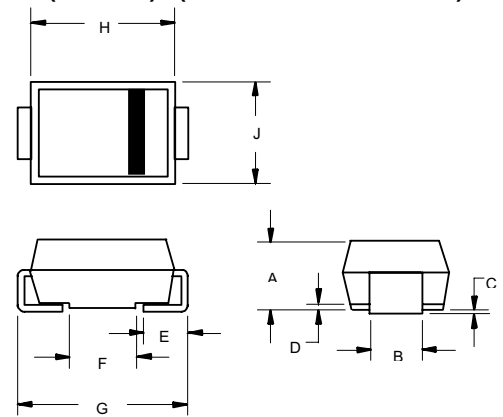
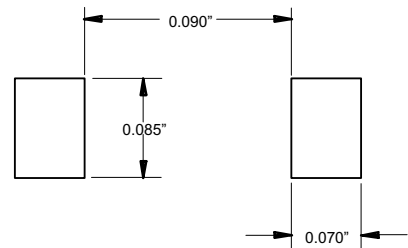


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows A through J correspond to dimensions in the diagram.

SUGGESTED SOLDER PAD LAYOUT



GS1A-L thru GS1M-L

Figure 1
Typical Forward Characteristics

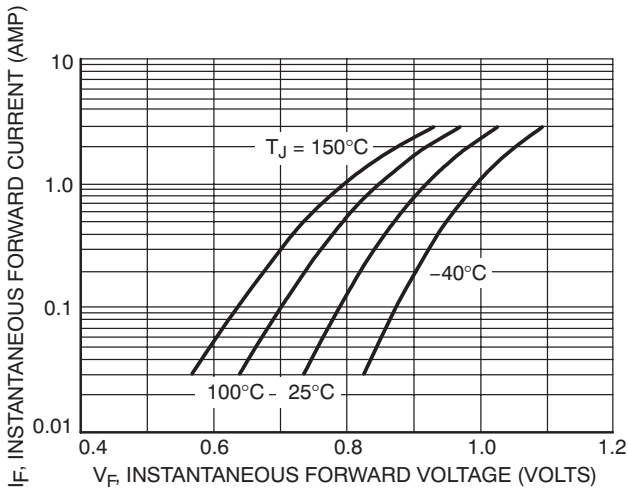
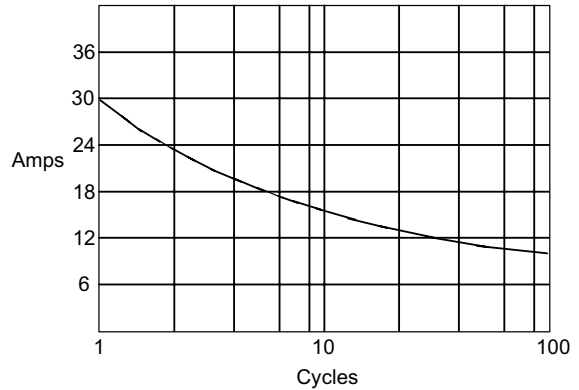
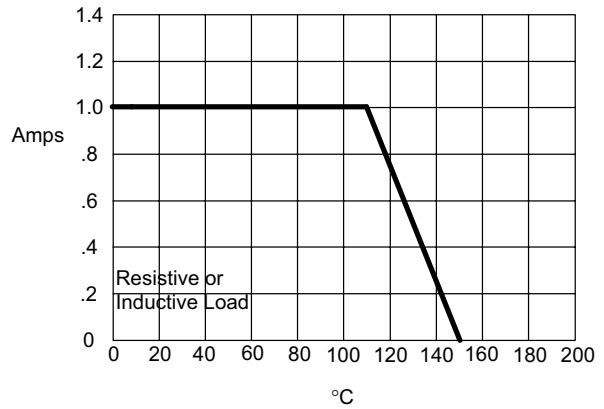


Figure 3
Maximum Overload Surge Current



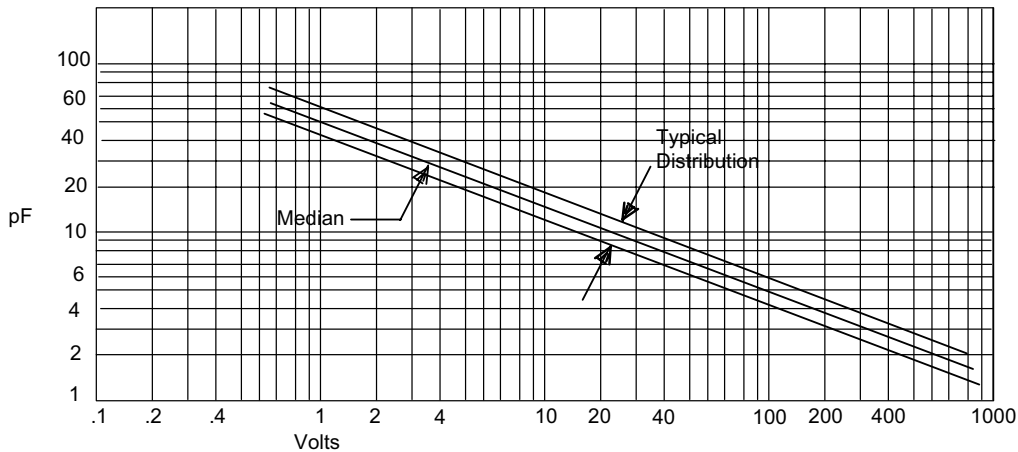
Peak Forward Current - Amperes versus
Number of Cycles at 60Hz

Figure 4
Forward Derating Curve



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

Figure 2
Junction Capacitance



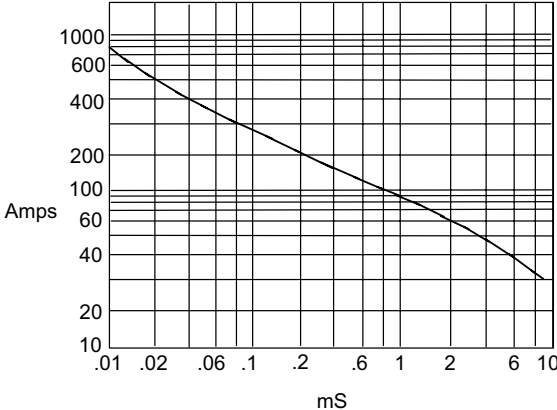
Junction Capacitance - pF versus
Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

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
GS1A-LTP~GS1M-LTP	Tape&Reel: 7.5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. GS1A-LTP-HF-GS1M-LTP-HF

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