



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# GS1A-L THRU GS1M-L

## **Features**

- 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

MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1A-L	GS1A	50V	35V	50V
GS1B-L	GS1B	100V	70V	100V
GS1D-L	GS1D	200V	140V	200V
GS1G-L	GS1G	400V	280V	400V
GS1J-L	GS1J	600V	420V	600V
GS1K-L	GS1K	800V	560V	800V
GS1M-L	GS1M	1000V	700V	1000V

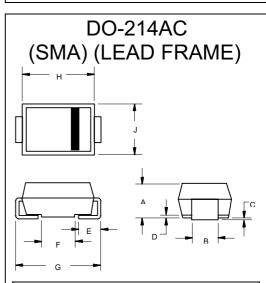
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward current	I <sub>F(AV)</sub>	1.0A	T <sub>L</sub> = 110°C		
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine,		
Maximum Instantaneous Forward Voltage	$V_{F}$	1.0V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μΑ 50μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C		
Typical Junction Capacitance	С	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V		

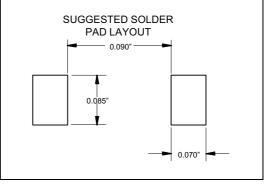
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

# 1.0 Amp Glass Passivated Rectifier 50 to 1000 Volts



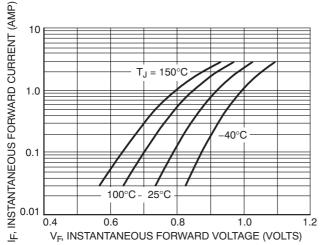
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.079	.096	2.00	2.44		
В	.050	.064	1.27	1.63		
С		.008		.20		
D		.02		.51		
E	.030	.060	.76	1.52		
F	.065	.091	1.65	2.32		
G	.189	.220	4.80	5.59		
Н	.157	.181	4.00	4.60		
J	.090	.115	2.25	2.92		



## GS1A-L thru GS1M-L

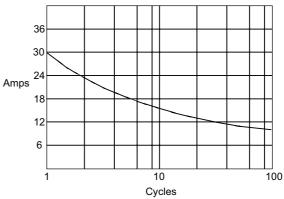
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Figure 1
Typical Forward Characteristics



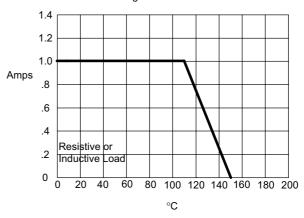
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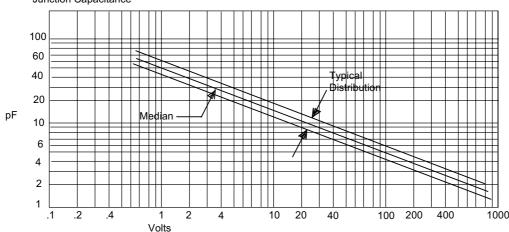
Peak Forward Current - Amperesversus Number of Cycles at 60Hz

Figure 4
Forward Derating Curve



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

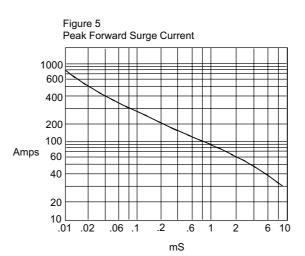
Figure 2 Junction Capacitance



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

## GS1A-L thru GS1M-L





Peak Forward Surge Current - Amperesversus Pulse Duration - Milliseconds (mS)



### **Ordering Information:**

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

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