

**Micro Commercial Components** 

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# GS1A-LT THRU GS1M-LT

#### **Features**

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Extremely Low Thermal Resistance
- High Temp Soldering: 260 °C for 10 Seconds At Terminals

## **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

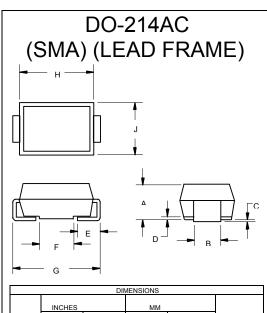
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent RMS		DC
Number		Peak Reverse Voltage		Blocking
		Voltage		Voltage
GS1A-LT	GS1A	50V	35V	50V
GS1B-LT	GS1B	100V	70V	100V
GS1D-LT	GS1D	200V	140V	200V
GS1G-LT	GS1G	400V	280V	400V
GS1J-LT	GS1J	600V	420V	600V
GS1K-LT	GS1K	V008	560V	800V
GS1M-LT	GS1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

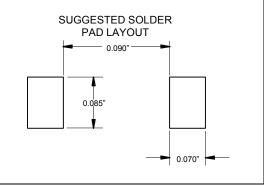
Average Forward current	$I_{F(AV)}$	1.0A	T <sub>J</sub> = 110°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.0V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	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%

# 1.0 Amp Glass Passivated Rectifier 50 to 1000 Volts



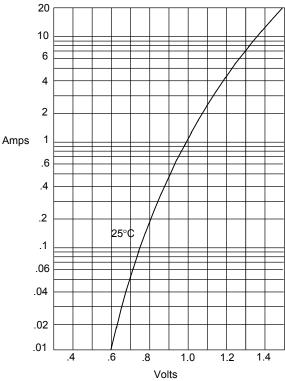
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.079	.096	2.00	2.44			
В	.050	.064	1.27	1.63			
С	.002	.008	.05	.20			
D		.02		.51			
E	.030	.060	.76	1.52			
F	.065	.091	1.65	2.32			
G	.189	.220	4.80	5.59			
Н	.157	.181	4.00	4.60			
J	.090	.115	2.25	2.92			



Revision: 5 2006/05/19

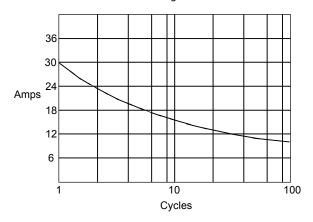
### GS1A-LT thru GS1M-LT

Figure 1
Typical Forward Characteristics



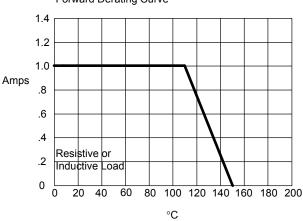
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3 Micro Commercial Components
Maximum Overload Surge Current



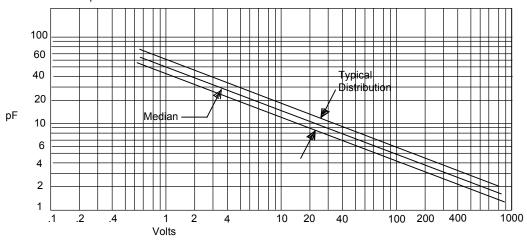
Peak Forward Current - Amperes*versus* Number of Cycles at 60Hz

Figure 4
Forward Derating Curve



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

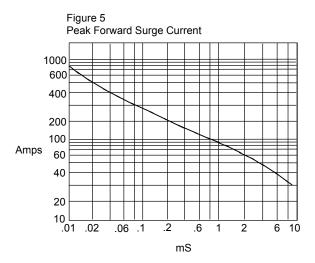
Figure 2 Junction Capacitance



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

## GS1A-LT thru GS1M-LT





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



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