

**Micro Commercial Components** 



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

### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Low Thermal Resistance
- 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; 15 °C/W Junction To Lead

MCC	Device	Maximum Maximum		Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	_	Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
GS1AE	GS1A	50V	35V	50V
GS1BE	GS1B	100V	70V	100V
GS1DE	GS1D	200V	140V	200V
GS1GE	GS1G	400V	280V	400V
GS1JE	GS1J	600V	420V	600V
GS1KE	GS1K	800V	560V	800V
GS1ME	GS1M	1000V	700V	1000V

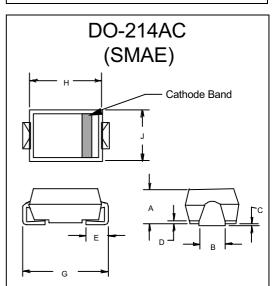
### Electrical Characteristics @ 25°C Unless Otherwise Specified

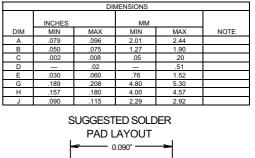
Average Forward current	I <sub>F(AV)</sub>	1.0A	T <sub>J</sub> = 75°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	$V_{F}$	1.1V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 50μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

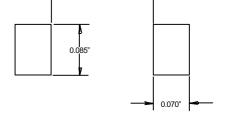
\*Pulse test: Pulse width 300 µsec, Duty cycle 2% Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

## GS1AE THRU GS1ME

## 1.0 Amp Silicon Rectifier 50 to 1000 Volts



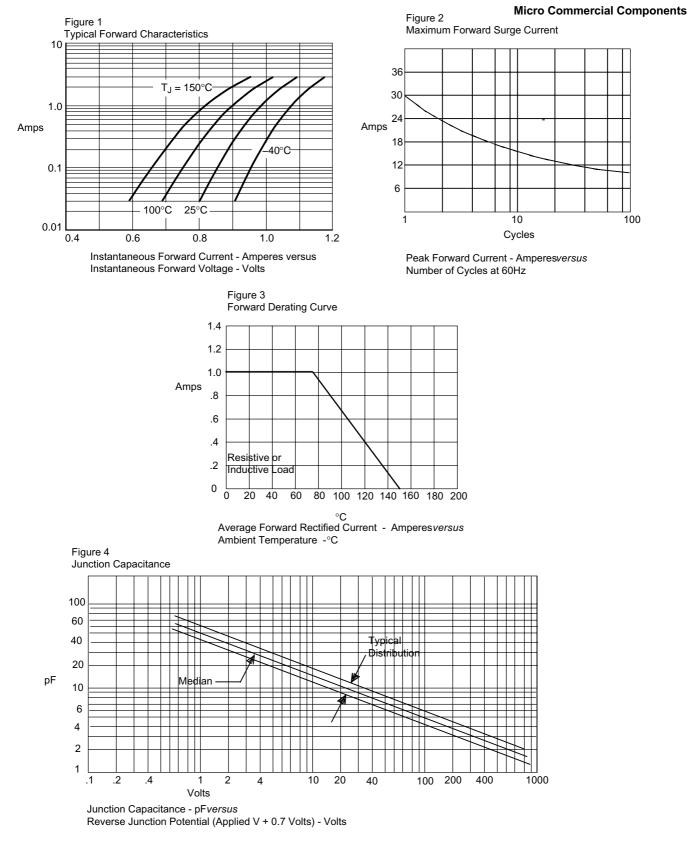




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## GS1AE thru GS1ME



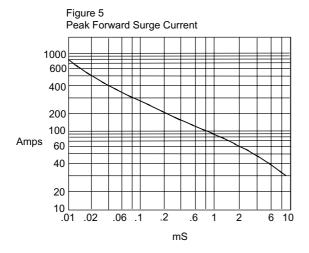


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# GS1AE thru GS1ME



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

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### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 6Kpcs/Reel	

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

#### **\*\*\*IMPORTANT NOTICE\*\*\***

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MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

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