



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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GS1AE THRU GS1ME

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
- 260C for 10s and 230 for 45s of High Temp. Soldering
- 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

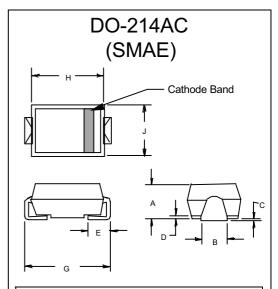
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

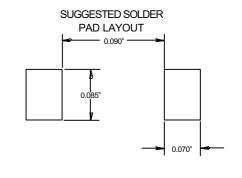
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1.0 Amp Silicon Rectifier 50 to 1000 Volts



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.079	.096	2.01	2.44			
В	.050	.075	1.27	1.90			
O	.002	.008	.05	.20			
D		.02		.51			
П	.030	.060	.76	1.52			
G	.189	.208	4.80	5.30			
H	.157	.180	4.00	4.57			
J	.090	.115	2.29	2.92			



GS1AE thru GS1ME



Figure 1
Typical Forward Characteristics

10

T_J = 150°C

-40°C

0.1

0.4

0.6

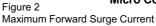
0.8

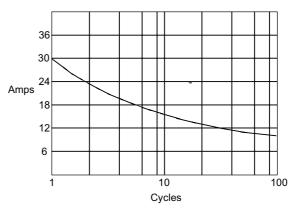
1.0

1.2

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

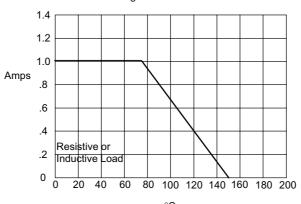
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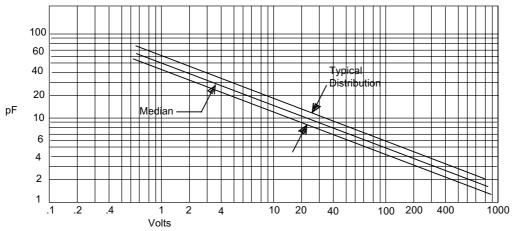
Peak Forward Current - Amperesversus Number of Cycles at 60Hz

Figure 3
Forward Derating Curve



°C
Average Forward Rectified Current - Amperes*versus*Ambient Temperature -°C

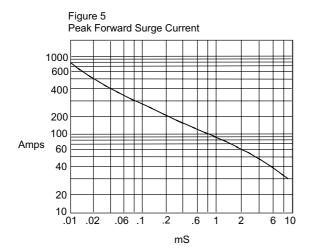
Figure 4 Junction Capacitance



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

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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

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