

ROHS

Micro Commercial Components

Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933 GS1A THRU GS1M

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- 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	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
GS1A	GS1A	50V	35V	50V
GS1B	GS1B	100V	70V	100V
GS1D	GS1D	200V	140V	200V
GS1G	GS1G	400V	280V	400V
GS1J	GS1J	600V	420V	600V
GS1K	GS1K	800V	560V	800V
GS1M	GS1M	1000V	700V	1000V

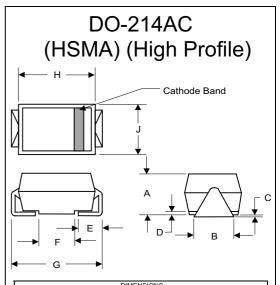
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward current	I _{F(AV)}	1.0A	T _a = 75°C		
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine,		
Current					
Maximum			$I_{FM} = 1.0A;$		
Instantaneous	V_{F}	1.1V	T _J = 25°C*		
Forward Voltage					
Maximum DC					
Reverse Current At	I_{R}	10μΑ	T _J = 25°C		
Rated DC Blocking		50μA	T _J = 125°C		
Voltage		•			
Typical Junction	C_{J}	15pF	Measured at		
Capacitance			1.0MHz, V _R =4.0V		

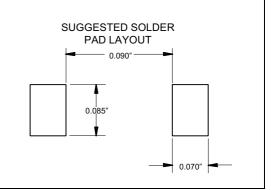
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1 Amp Silicon Rectifier 50 to 1000 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.078	.116	1.98	2.95		
В	.067	.089	1.70	2.25		
С	.002	.008	.05	.20		
D		.02		.51		
E	.035	.055	.89	1.40		
F	.065	.096	1.65	2.45		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
J	.100	.112	2.57	2.84		

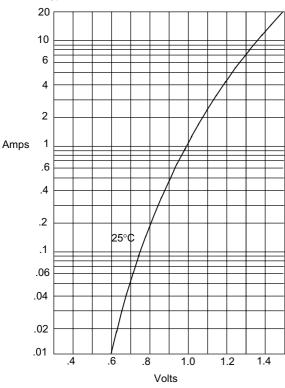




GS1A thru GS1M

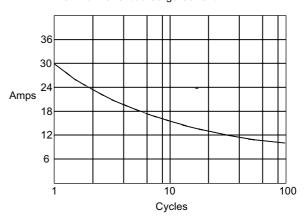
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Figure 1
Typical Forward Characteristics



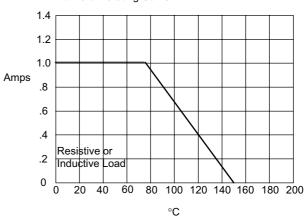
Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts

Figure 3
Maximum Overload Surge Current



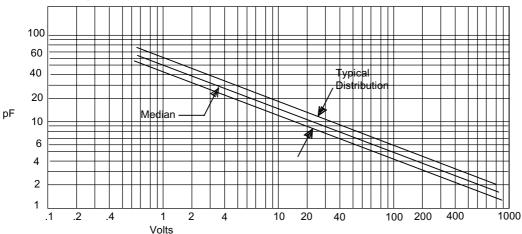
Peak Forward Current - Amperes*versus* Number of Cycles at 60Hz

Figure 4
Forward Derating Curve



Average Forward Rectified Current - Amperesversus Ambient Temperature - $^{\circ}C$

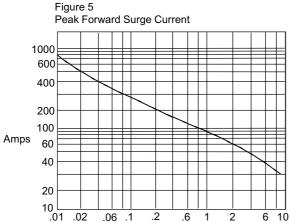
Figure 2 Junction Capacitance

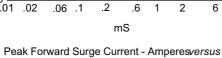


Junction Capacitance - pFversus Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

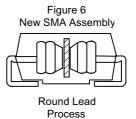
GS1A thru GS1M







Pulse Duration - Milliseconds (mS)





Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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