

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

GS1A THRU GS1M

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 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	V008
GS1M	GS1M	1000V	700V	1000V

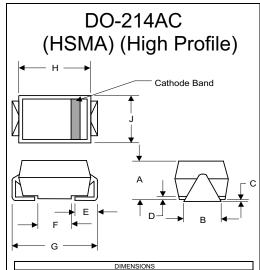
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward current	I _{F(AV)}	1.0A	T _a = 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	10μΑ 50μΑ	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

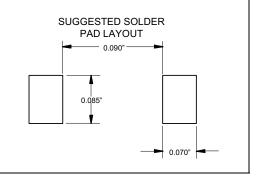
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1 Amp Silicon Rectifier 50 to 1000 Volts



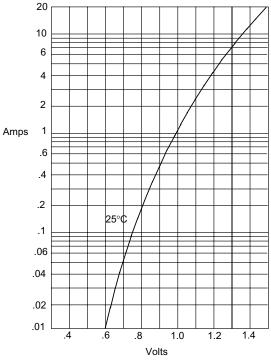
DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.078	.116	1.98	2.95			
В	.067	.089	1.70	2.25			
С	.002	.008	.05	.20			
D		.02		.51			
E	.035	.055	.89	1.40			
F	.065	.096	1.65	2.45			
G	.205	.224	5.21	5.69			
Н	.160	.180	4.06	4.57			
	100	112	2.57	2.94			



GS1A thru GS1M

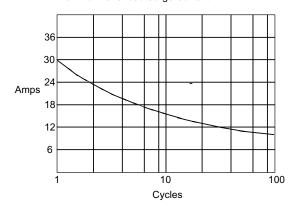


Figure 1
Typical Forward Characteristics



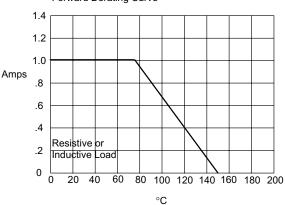
Instantaneous Forward Current - Amperes/ersus Instantaneous Forward Voltage - Volts

Figure 3 Micro Commercial Components Maximum Overload Surge Current



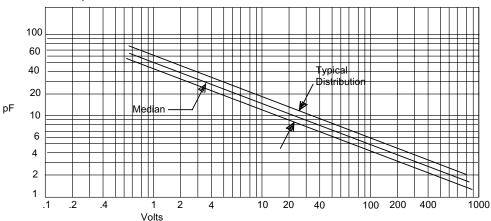
Peak Forward Current - Amperesversus Number of Cycles at 60Hz

Figure 4
Forward Derating Curve



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

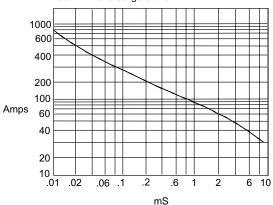
Figure 2 Junction Capacitance



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

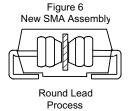
GS1A thru GS1M





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







Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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