

Micro Commercial Components



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

Features

- Halogen free available upon request by adding suffix "-HF" Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- **Extremely 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; 13°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1AFL	GS1A	50V	35V	50V
GS1BFL	GS1B	100V	70V	100V
GS1DFL	GS1D	200V	140V	200V
GS1GFL	GS1G	400V	280V	400V
GS1JFL	GS1J	600V	420V	600V
GS1KFL	GS1K	800V	560V	800V
GS1MFL	GS1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

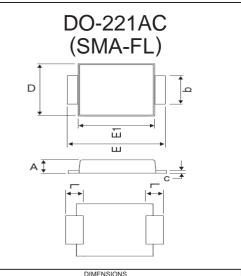
Average Forward	$I_{F(AV)}$	1.0A	T _L = 110°C
current		30A	9 2ma half aina
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine,
Maximum			I _{FM} = 1.0A;
Instantaneous	V _F	1.0V	T」= 25°C*
Forward Voltage			
Maximum DC			
Reverse Current At	I _R	10µA	T _J = 25°C
Rated DC Blocking		50µA	T _J = 125°C
Voltage		•	
Typical Junction	CJ	15pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

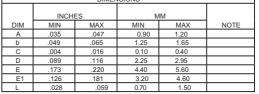
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

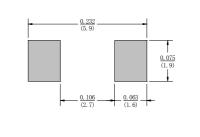
GS1AFL THRU **GS1MFL**

1.0 Amp Glass **Passivated Rectifier** 50 to 1000 Volts





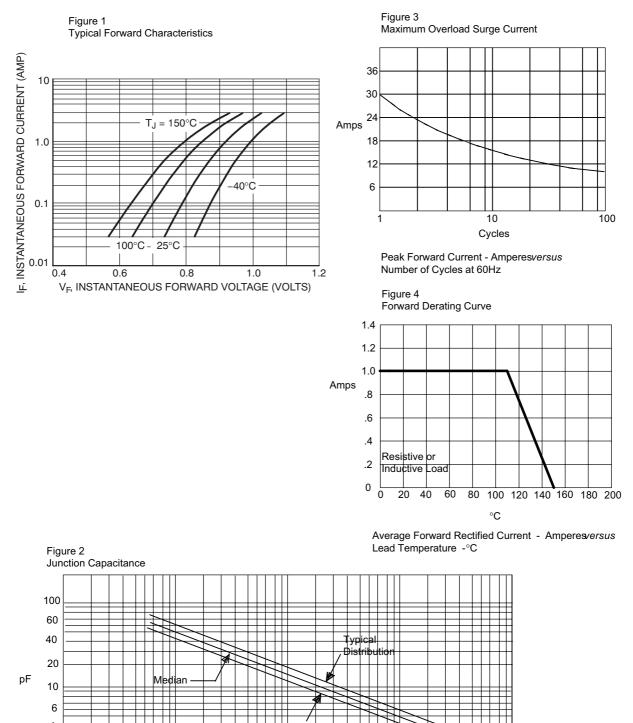
SUGGESTED SOLDER PAD LAYOUT



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GS1AFL thru GS1MFL



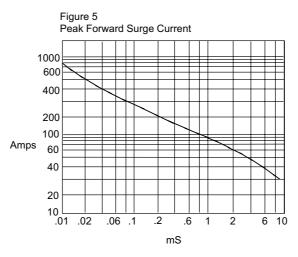
4 2 1 .2 .4 2 4 10 20 40 100 200 400 .1 1 Volts Junction Capacitance - pFversus Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

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1000



GS1AFL thru GS1MFL



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





Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 10Kpcs/Reel	

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

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