

Micro Commercial Components



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

Features

- Lead Free Finish/RoHS Compliant(Note1) ("P" Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- 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
- Typical Thermal Resistance : 20°C/W Junction To Lead
- Typical Thermal Resistance : 53°C/W Junction To Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS2A-L	GS2A	50V	35V	50V
GS2B-L	GS2B	100V	70V	100V
GS2D-L	GS2D	200V	140V	200V
GS2G-L	GS2G	400V	280V	400V
GS2J-L	GS2J	600V	420V	600V
GS2K-L	GS2K	800V	560V	800V
GS2M-L	GS2M	1000V	700V	1000V

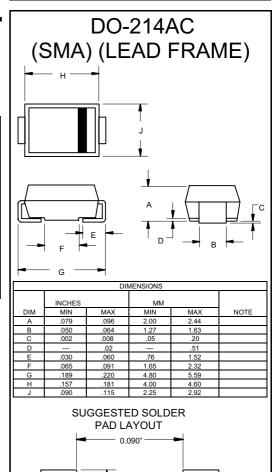
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward current	I _{F(AV)}	2.0A	T∟= 110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.1V	I _{FM} = 2.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ 125μΑ	T _J =25°C TJ=100°C TJ=125°C
Typical Junction Capacitance	CJ	20pF	Measured at 1.0MHz, V _R =4.0V
Maximum Reverse Recovery Time	T _{rr}	2.1us(Typ.) 4us(Max)	IF=0.5A, IR=1.0A, I _{rr} =0.25A
Avalanche energy	EAS	20mJ	LH:40mH,Tj=150°C

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



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



0.085



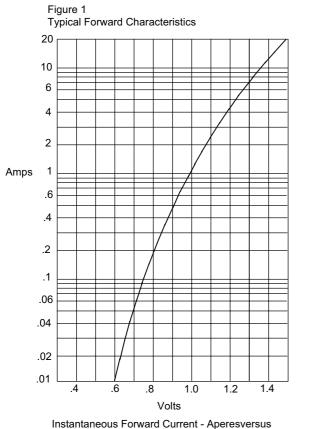
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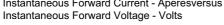
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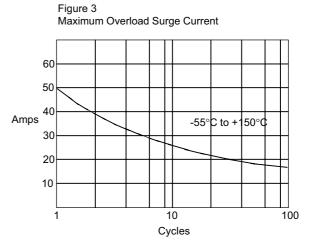




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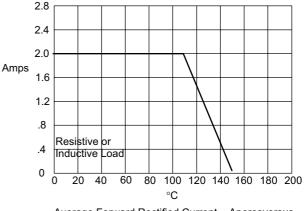




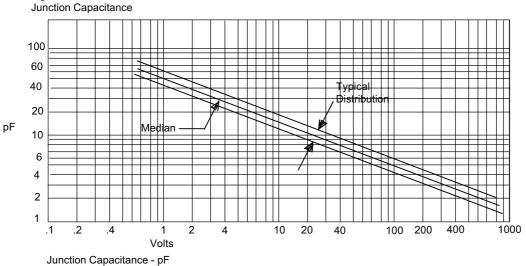


Peak Forward Current - Aperesversus Number of Cycles at 60Hz





Average Forward Rectified Current - Aperesversus Lead Temperature $\ -^\circ C$



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

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Figure 2



Ordering Information :

Device	Packing	
GS2A-LTP~GS2M-LTP	Tape&Reel: 7.5Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. GS2A-LTP-HF~GS2M-LTP-HF

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