

Micro Commercial Components



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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: 15°C/W Junction To Lead

85°C/W Junction To Ambient

MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1A-L	GS1A	50V	35V	50V
GS1B-L	GS1B	100V	70V	100V
GS1D-L	GS1D	200V	140V	200V
GS1G-L	GS1G	400V	280V	400V
GS1J-L	GS1J	600V	420V	600V
GS1K-L	GS1K	800V	560V	800V
GS1M-L	GS1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

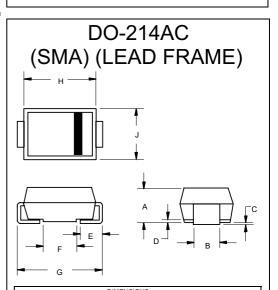
Average Forward current	I _{F(AV)}	1.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	V_{F}	1.0V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V
Typical Reverse Recovery Time	T _{rr}	2000ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Rating for Fusing	l²t	3.735A ² s	
Avalanche energy	EAS	20mJ	LH:40mH

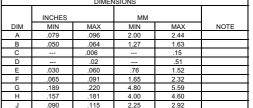


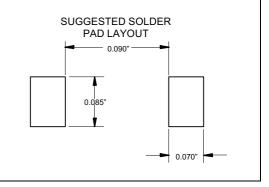
GS1A-L

THRU

GS1M-L







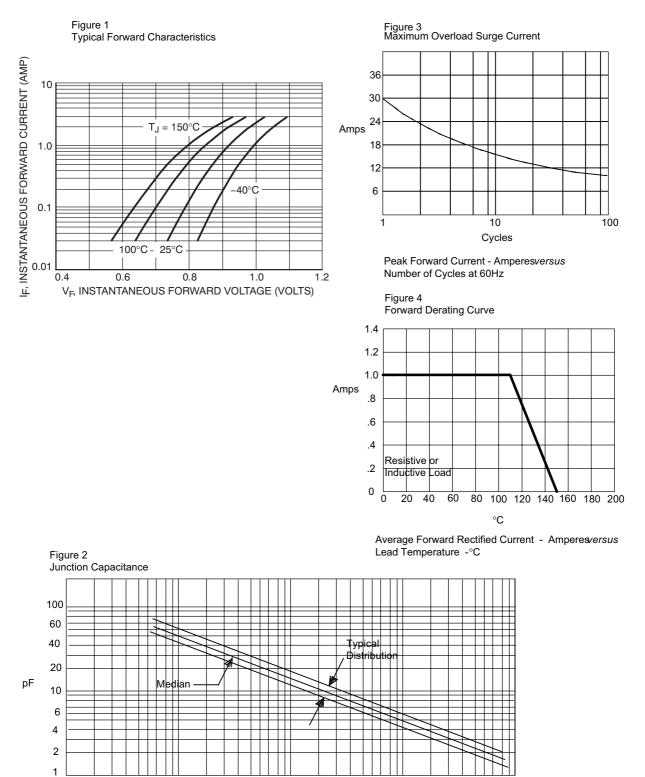
*Pulse test: Pulse width 300 $\mu sec,$ Duty cycle 2%

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

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GS1A-L thru GS1M-L



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

1 Volts 2

4

10 20

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.2

.1

.4

40

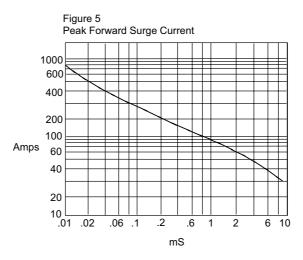
100 200

400

1000

GS1A-L thru GS1M-L





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

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Ordering Information :

Device	Packing	
GS1A-LTP~GS1M-LTP	Tape&Reel: 7.5Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. GS1A-LTP-HF~GS1M-LTP-HF

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