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GS1A-L THRU GS1M-L

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	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		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

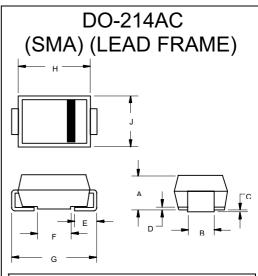
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	10μΑ 50μΑ	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	C	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	

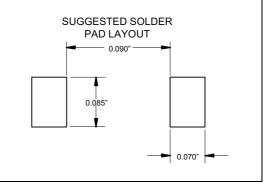
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1.0 Amp Glass Passivated Rectifier 50 to 1000 Volts



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.079	.096	2.00	2.44			
В	.050	.064	1.27	1.63			
С		.008		.20			
D	_	.02		.51			
Е	.030	.060	.76	1.52			
Ŧ	.065	.091	1.65	2.32			
G	.189	.220	4.80	5.59			
Н	.157	.181	4.00	4.60			
J	.090	.115	2.25	2.92			





GS1A-L thru GS1M-L

Figure 1
Typical Forward Characteristics

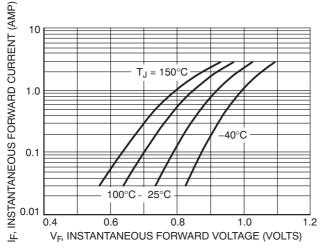
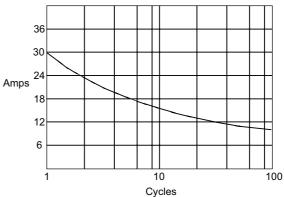
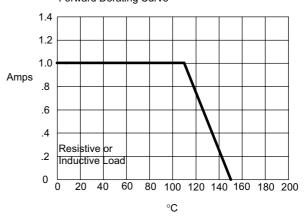


Figure 3 Maximum Overload Surge Current



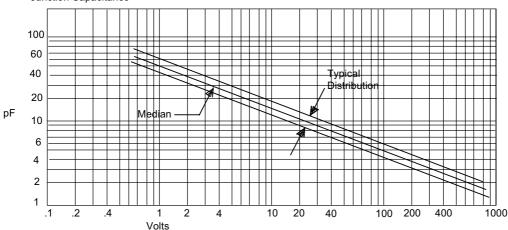
Peak Forward Current - Amperes*versus* Number of Cycles at 60Hz

Figure 4 Forward Derating Curve



Average Forward Rectified Current - Amperes/ersus Lead Temperature -°C

Figure 2 Junction Capacitance



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



GS1A-L thru GS1M-L

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



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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