

# Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -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
GS2AHE3-L	GS2A	50V	35V	50V
GS2BHE3-L	GS2B	100V	70V	100V
GS2DHE3-L	GS2D	200V	140V	200V
GS2GHE3-L	GS2G	400V	280V	400V
GS2JHE3-L	GS2J	600V	420V	600V
GS2KHE3-L	GS2K	800V	560V	800V
GS2MHE3-L	GS2M	1000V	700V	1000V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	2.0A	T <sub>L</sub> =110⁰C
Peak Forward Surge Current	I <sub>FSM</sub>	50A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	I <sub>FM</sub> =2.0A; T <sub>J</sub> =25ºC*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μΑ 0.1μΑ(Typ.) 50μΑ 4.5μΑ(Typ.) 125μΑ	T <sub>J</sub> =25°C; T <sub>J</sub> =100°C T <sub>J</sub> =125°C
Typical Junction Capacitance	CJ	20pF	Measured at 1.0MHz V <sub>R</sub> =4.0V
Maximum Reverse Recovery Time	t <sub>rr</sub>	2.1µs(Typ) 4µs(Max)	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; Irr=0.25A
Avalanche Energy	EAS	20mJ	LH:40mH,T <sub>J</sub> =150°C

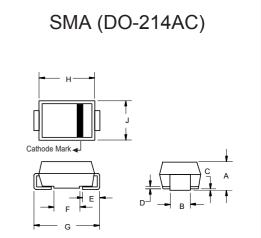
\*Pulse Test: Pulse Width 300  $\mu sec,$  Duty Cycle 2%

Note :1. Halogen free "Green" products are defined as those which contain <900ppm bromine,

<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

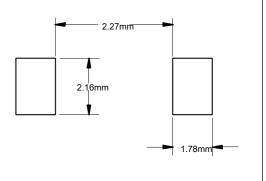
2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

# 2.0 Amp Glass Passivated Rectifier 50 to 1000 Volts



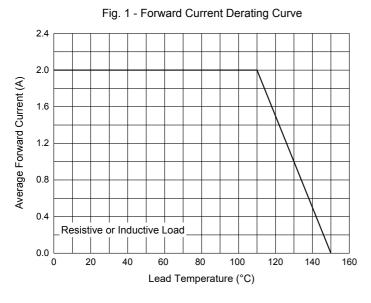
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.075	0.096	1.90	2.44	
В	0.050	0.064	1.27	1.63	
С	0.002	0.008	0.051	0.203	
D		0.020		0.51	
Е	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
Н	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	

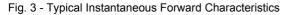
#### SUGGESTED SOLDER PAD LAYOUT

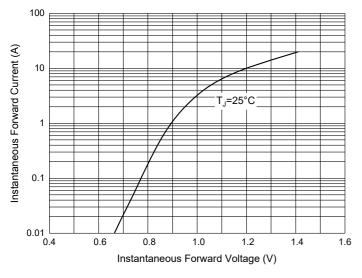


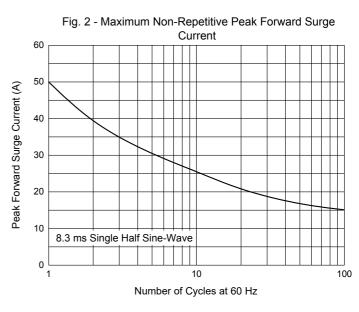


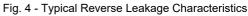
# **Curve Characteristics**

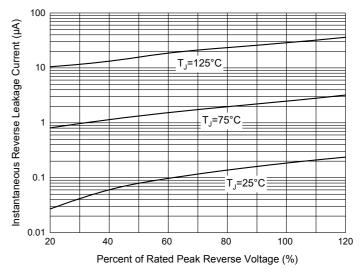














Device	Packing	
GS2AHE3-LTP~GS2MHE3-LTP	Tape&Reel: 7.5Kpcs/Reel	

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