

Features

- AEC-Q101 Qualified
- Halogen Free
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)

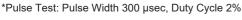
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 15°C/W Junction to Lead
- Thermal Resistance: 85°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1AHE3-L	GS1A	50V	35V	50V
GS1BHE3-L	GS1B	100V	70V	100V
GS1DHE3-L	GS1D	200V	140V	200V
GS1GHE3-L	GS1G	400V	280V	400V
GS1JHE3-L	GS1J	600V	420V	600V
GS1KHE3-L	GS1K	800V	560V	800V
GS1MHE3-L	GS1M	1000V	700V	1000V

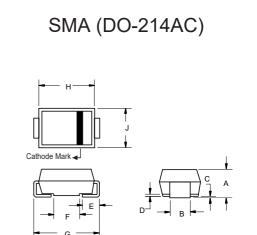


Average Forward Current	I _{F(AV)}	1.0A	T _L = 110°C	
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 1.0A;T _J = 25°C *	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J = 25°C T _J = 125°C	
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V	
Typical Reverse Recovery Time	t _{rr}	2.0µs	I _F =0.5A, I _R =1.0A,Irr=0.25A	
Rating For Fusing	l ² t	3.735A ² s		
Avalanche Energy	EAS	20mJ	LH:40mH	



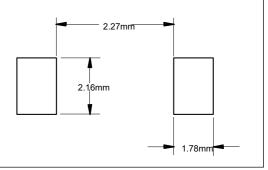
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.





DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	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		
E	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

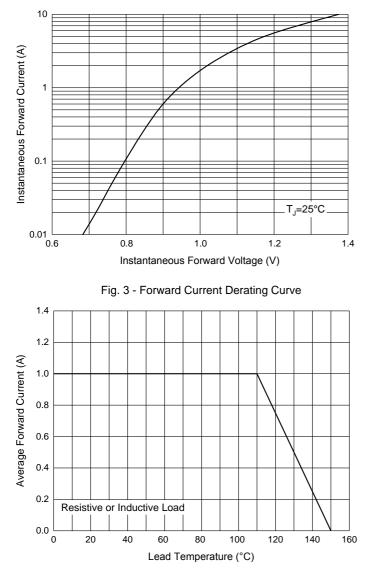
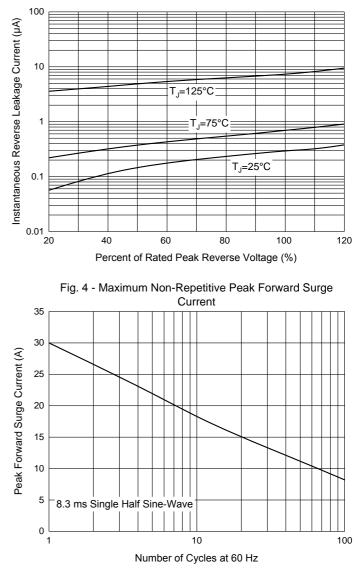


Fig. 1 - Typical Instantaneous Forward Characteristics





Ordering Information

Device	Packing	
Part Number-LTP	Tape&Reel: 7.5Kpcs/Reel	

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