

Features

- Halogen Free. "Green" Device (Note 1)
- Low Current Leakage And Low Cost
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

1 Amp Silicon Rectifier 50 - 1000 Volts

Maximum Ratings

• Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

Maximum Thermal Resistance: 15°C/W Junction to Lead
 Maximum 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
GS1AE	GS1A	50V	35V	50V
GS1BE	GS1B	100V	70V	100V
GS1DE	GS1D	200V	140V	200V
GS1GE	GS1G	400V	280V	400V
GS1JE	GS1J	600V	420V	600V
GS1KE	GS1K	800V	560V	800V
GS1ME	GS1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

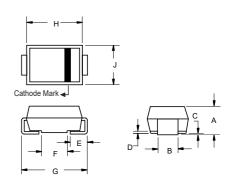
Average Forward Current	I _{F(AV)}	1.0A	T _A = 75°C	
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _{FM} = 1.0A;T _J = 25°C *	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	
Typical Junction Capacitance	C _J	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		

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%

Note:

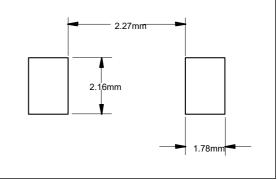
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

SMA (DO-214AC)



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

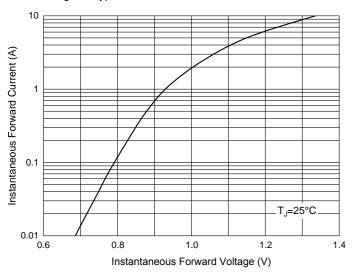


Fig. 3 - Forward Current Derating Curve

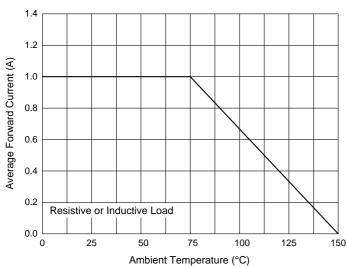


Fig. 2 - Typical Reverse Leakage Characteristics

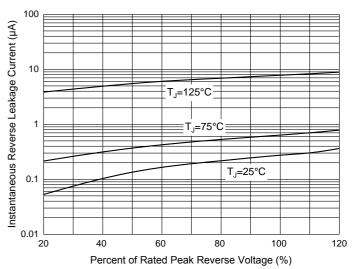
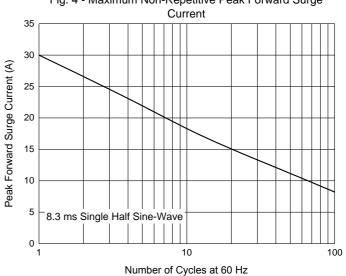


Fig. 4 - Maximum Non-Repetitive Peak Forward Surge





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel:6Kpcs/Reel	

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