



Micro Commercial Components

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

GS1A-LT THRU GS1M-LT

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

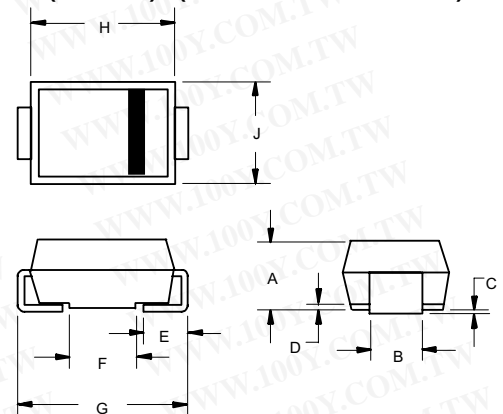
Average Forward current	$I_{F(AV)}$	1.0A	$T_J = 110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 1.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 50μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical Junction Capacitance	C_J	15pF	Measured at 1.0MHz, $V_R=4.0V$

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

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

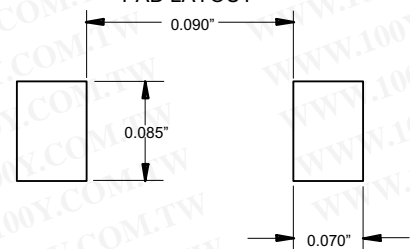
1.0 Amp Glass Passivated Rectifier 50 to 1000 Volts

DO-214AC (SMA) (LEAD FRAME)



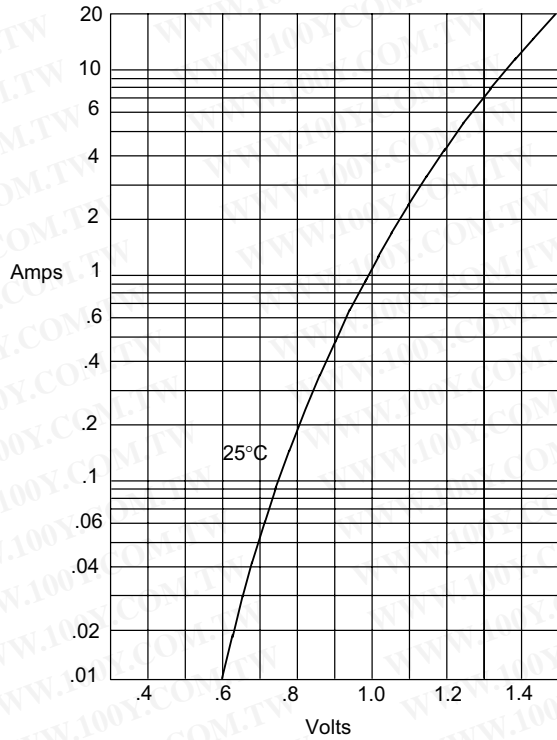
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.079	.096	2.00	2.44	
B	.050	.064	1.27	1.63	
C	.002	.008	.05	.20	
D	—	.02	—	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
H	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



GS1A-LT thru GS1M-LT

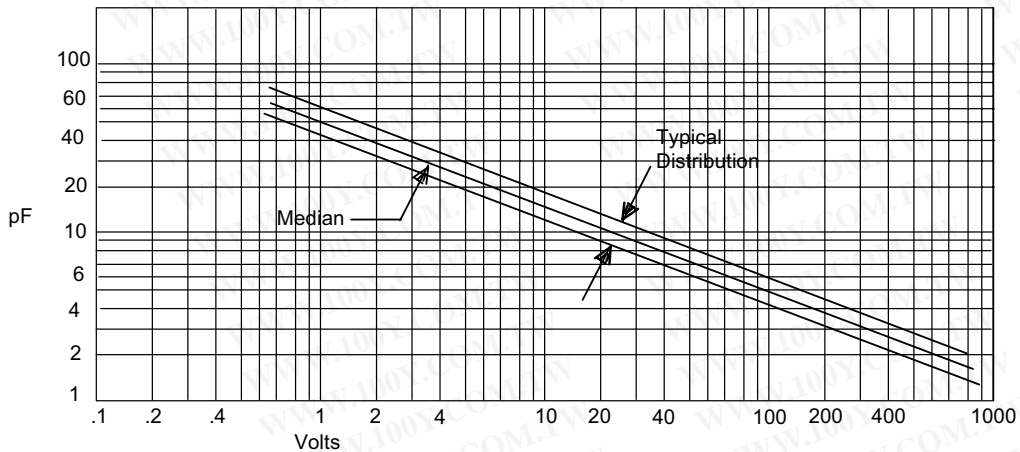
Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

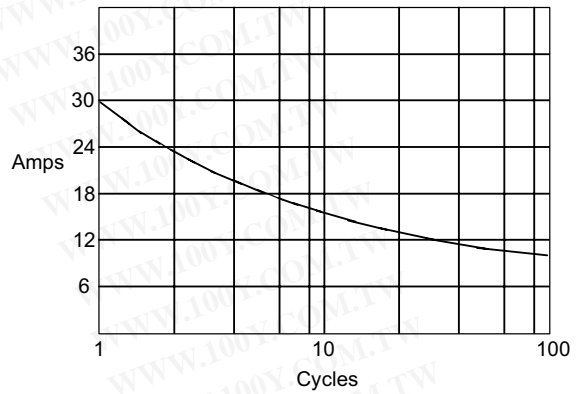
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Figure 2
Junction Capacitance



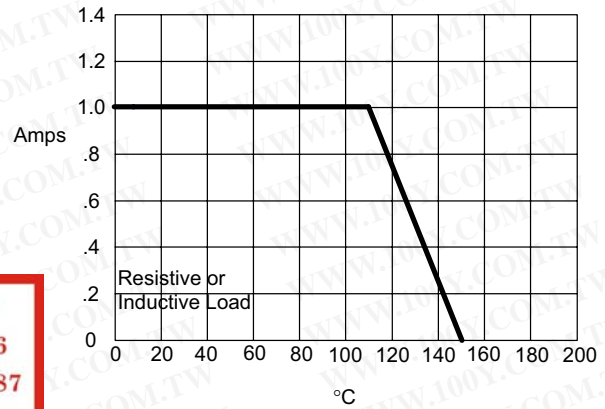
Junction Capacitance - pF versus
Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

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Figure 3
Maximum Overload Surge Current



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

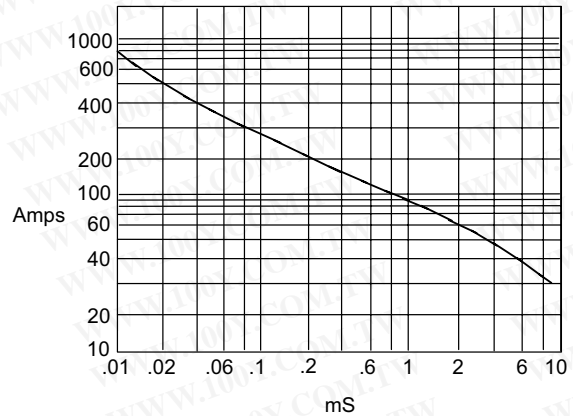
Figure 4
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

GS1A-LT thru GS1M-LT

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus Pulse Duration - Milliseconds (mS)

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Ordering Information

Device (Part Number)P	Packing
	Tape&Reel;7.5Kpcs/Reel

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