

Features

- Glass Passivated Chip Junction
- Low Profile Package
- High Forward Surge Capability
- Low Thermal Resistance
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 2)
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C (Unless Otherwise Specified)

2 Amp General Purpose Rectifier 1000 Volts

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	1000	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	V _{RMS}	700	V
Average Rectified Forward Current @ See Fig.1	I _{F(AV)}	2	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50	А
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375	A²s

Marking code

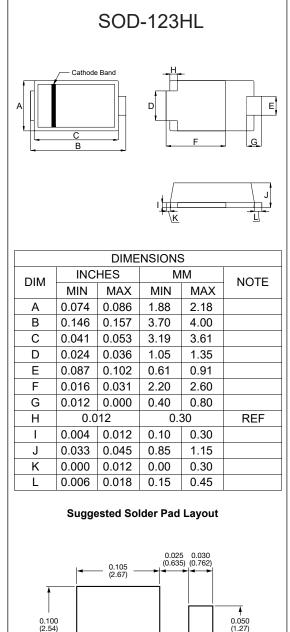
Part Number	Marking code	
GS2MHL	GS2M	

Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	Cathode		
2	Anode	XXXX = Marking code	1 ₀₀ 2

Note:

High temperature solder exemption applied, see EU directive annex 7a.
Halogen free "Green" products are defined as those which contain <900ppm bromine,
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

1.Mounted on P.C.B. with 5mm*5mm copper pad areas, Rth_(J-L) is measured at the terminal of cathode band.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		12		pF



Curve Characteristics

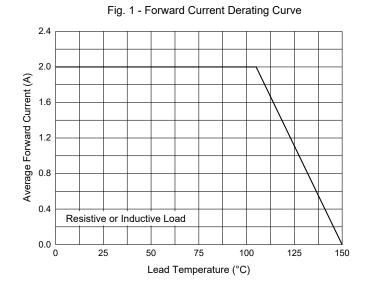


Fig. 3 - Typical Forward Characteristics

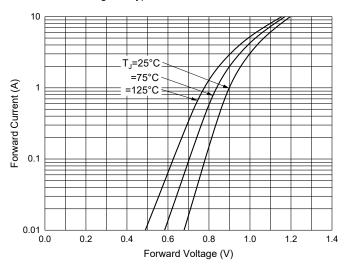
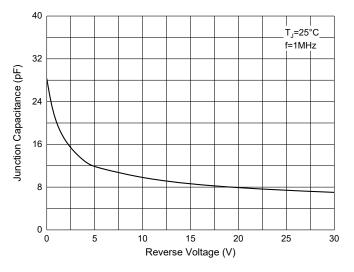


Fig. 5 - Typical Capacitance Characteristics



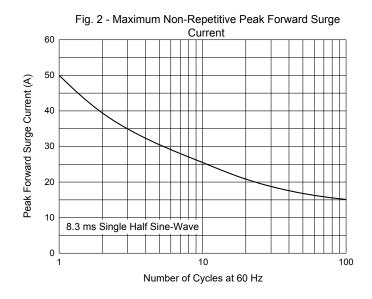
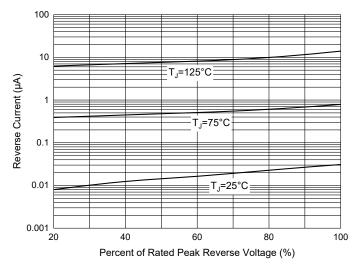


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:2.5Kpcs/Reel		

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