

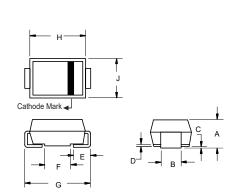
Features

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

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Demonster	0		Value						Unit
Parameter	Symbol	GS 2A-L	GS 2B-L	GS 2D-L	GS 2G-L	GS 2J-L	GS 2K-L	GS 2M-L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ T _L =110°C	I _{F(AV)}	2				A			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}				50				A
Non-Repetitive Peak Surge Current @ 1ms Square Wave	IFSM	100					A		
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375					A²s		

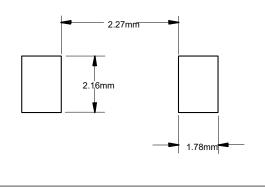
2 Amp General Purpose Rectifier 50 to 1000 Volts



SMA (DO-214AC)

DIMENSIONS						
DIM	INCHES		M	М	NOTE	
Divi	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		

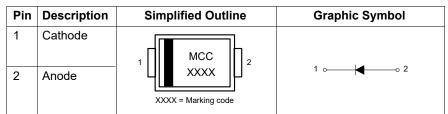
SUGGESTED SOLDER PAD LAYOUT



Marking Code

Part Number	Marking Code
GS2A-L	GS2A
GS2B-L	GS2B
GS2D-L	GS2D
GS2G-L	GS2G
GS2J-L	GS2J
GS2K-L	GS2K
GS2M-L	GS2M

Internal Structure



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.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	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		75		°C/W

Note:

1.Mounted on P.C.B. with 8mm*8mm copper pad areas.

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 $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=100^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 50 125	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		13		pF
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C		2.1		μS



Curve Characteristics

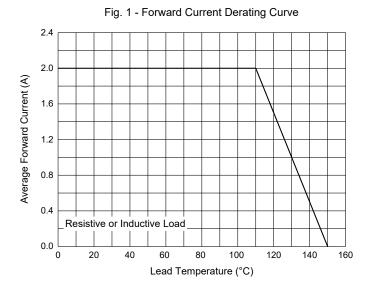
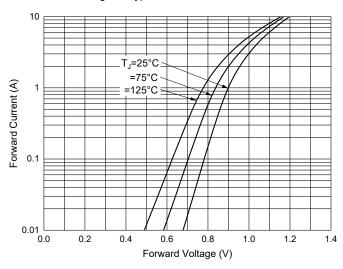
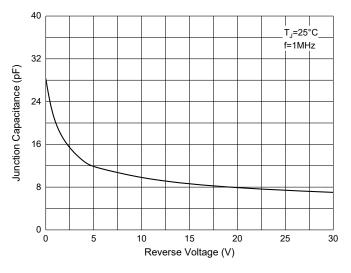


Fig. 3 - Typical Forward Characteristics







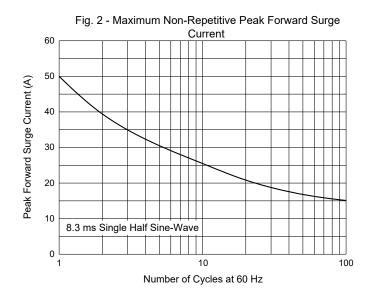
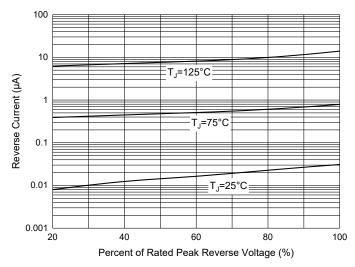


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing			
GS2A-LTP ~ GS2M-LTP	Tape&Reel:7.5Kpcs/Reel			

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC):

GS2A-LTP GS2J-LTP GS2M-LTP GS2K-LTP GS2M-LTPS02