



Micro Commercial Components



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# GS2A THRU GS2M

**2.0 Amp  
Silicon Rectifier  
50 to 1000 Volts**

## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low Thermal Resistance
- For Surface Mount Application
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

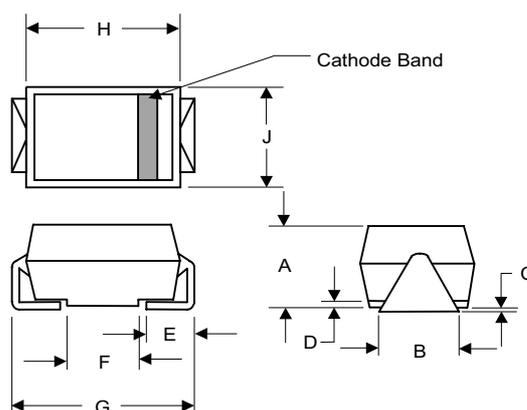
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS2A	GS2A	50V	35V	50V
GS2B	GS2B	100V	70V	100V
GS2D	GS2D	200V	140V	200V
GS2G	GS2G	400V	280V	400V
GS2J	GS2J	600V	420V	600V
GS2K	GS2K	800V	560V	800V
GS2M	GS2M	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_A=75^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.10V	$I_{FM}=2.0A$ $T_A=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10.0uA	$T_J=25^\circ\text{C}$
Typical Junction Capacitance	$C_j$	20pF	Measured at 1.0MHz, $V_R=4.0V$

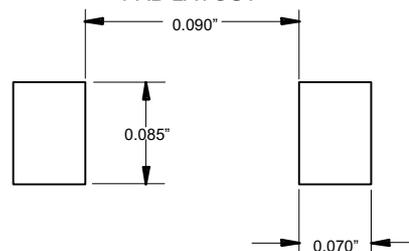
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

## DO-214AC (HSMA) (High Profile)



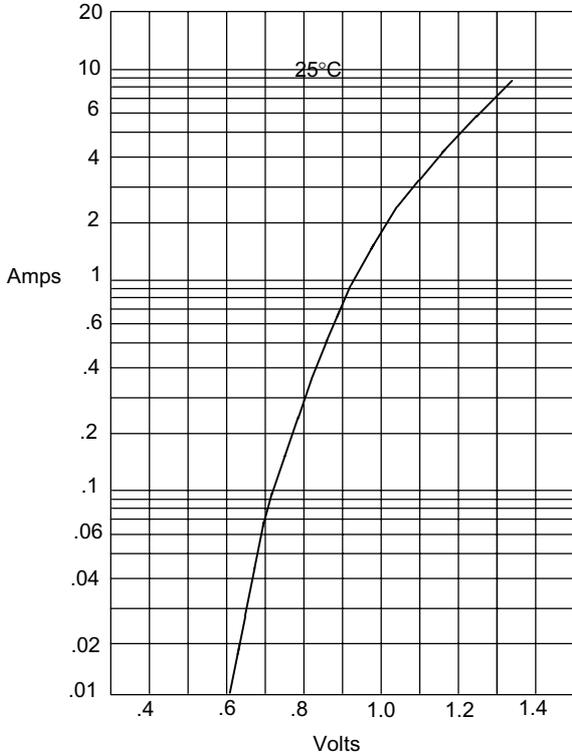
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.078	.116	1.98	2.95	
B	.067	.089	1.70	2.25	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.035	.055	.89	1.40	
F	.065	.096	1.65	2.45	
G	.205	.224	5.21	5.69	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

### SUGGESTED SOLDER PAD LAYOUT



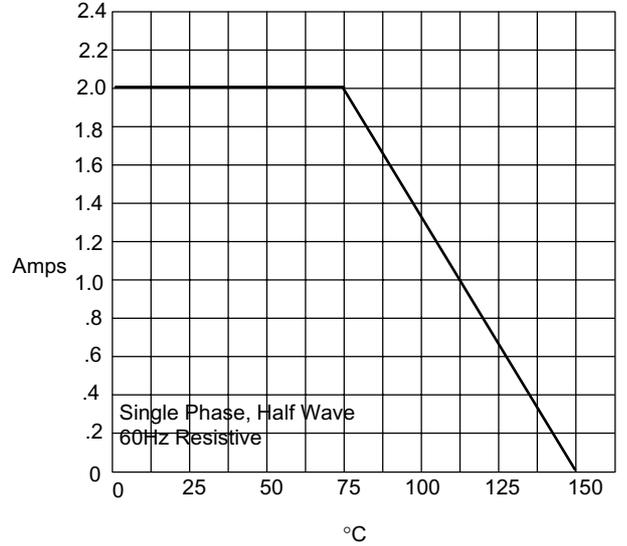
# GS2A thru GS2M

Figure 1  
Typical Forward Characteristics



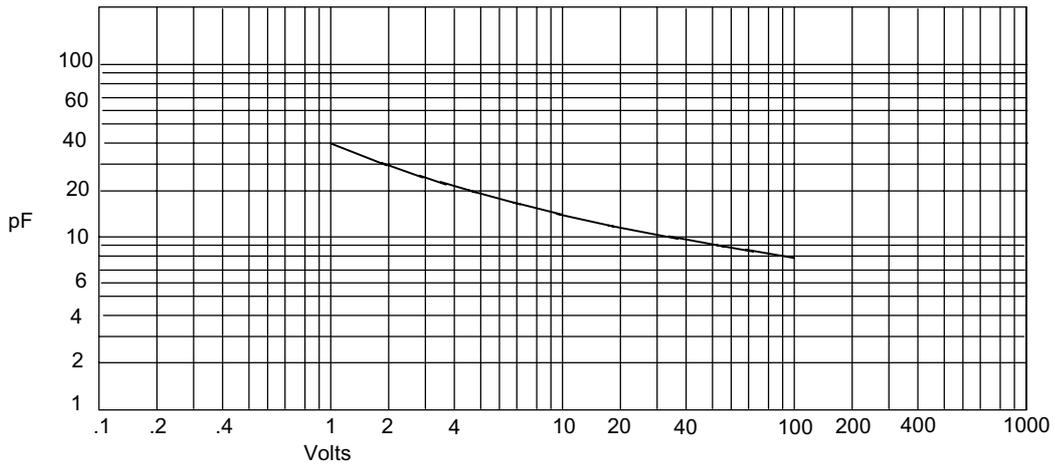
Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



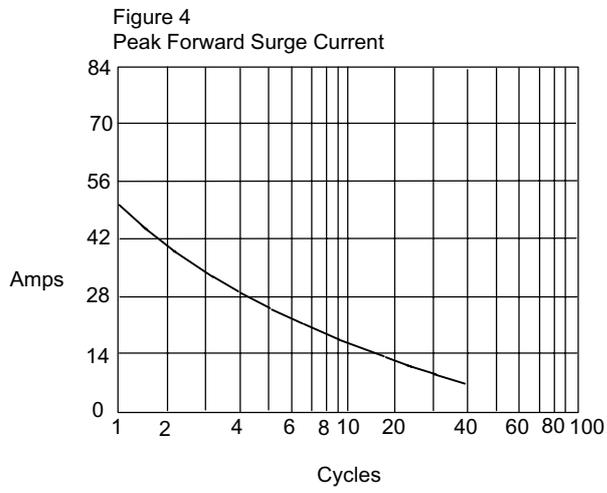
Average Forward Rectified Current - Amperes *versus* Ambient Temperature - °C

Figure 3  
Junction Capacitance

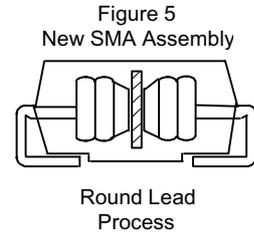


Junction Capacitance - pF *versus* Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

# GS2A thru GS2M



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles





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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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