



Micro Commercial Components  
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# GS2A THRU GS2M

## 2.0 Amp Silicon Rectifier 50 to 1000 Volts

### Features

- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250°C for 10 Seconds At Terminals
- Available on Tape and Reel

### Maximum Ratings

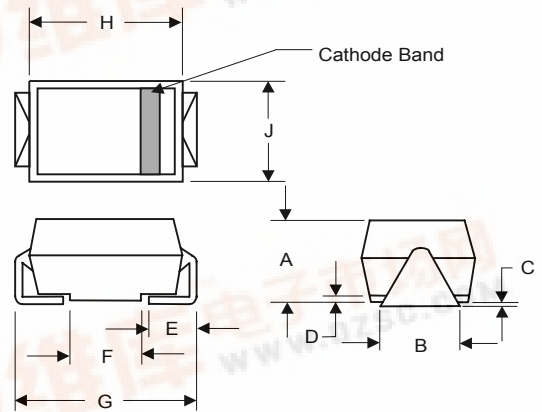
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

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

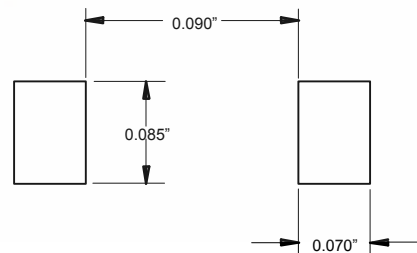
Average Forward Current	$I_{F(AV)}$	2.0A	$T_J=75^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.10V	$I_{FM}=2.0A$ $T_A=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10.0uA	$T_J=25^\circ\text{C}$
Typical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

### DO-214AC (SMAJ) (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



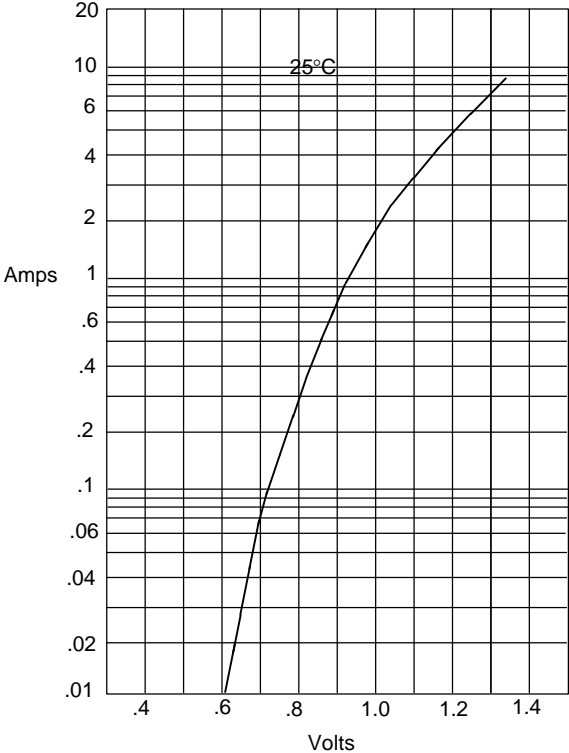
Pulse test: Pulse width 300 usec, duty cycle 2%.





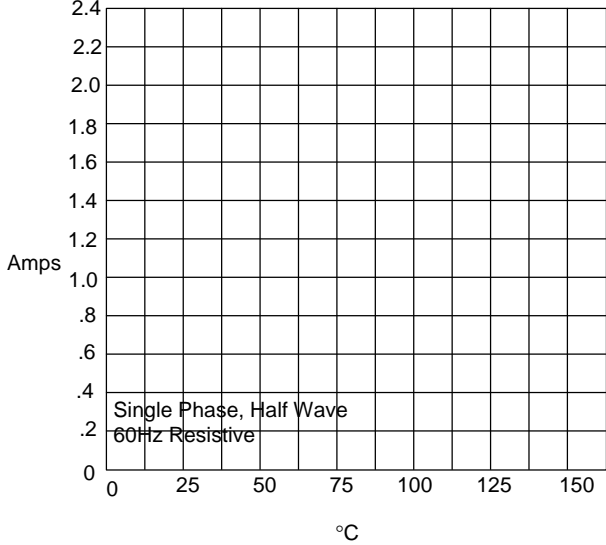
# GS2A thru GS2M

Figure 1  
Typical Forward Characteristics



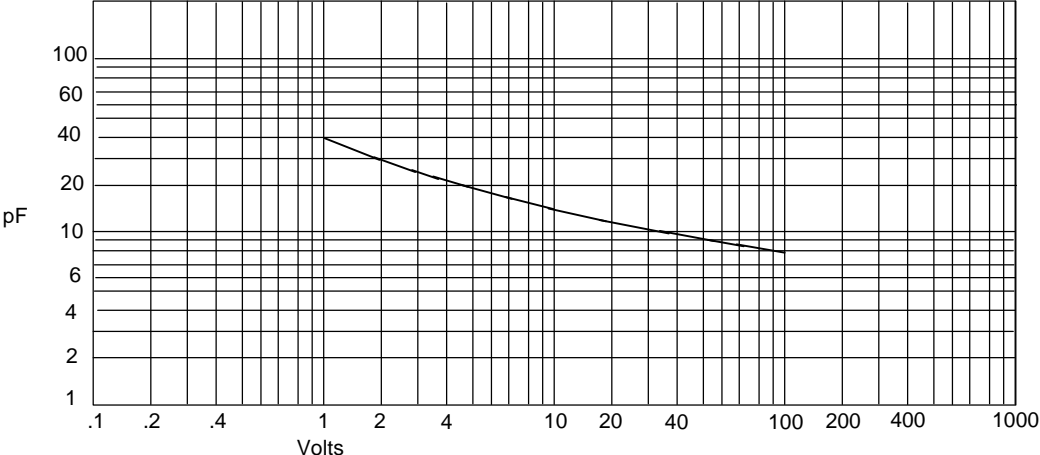
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



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

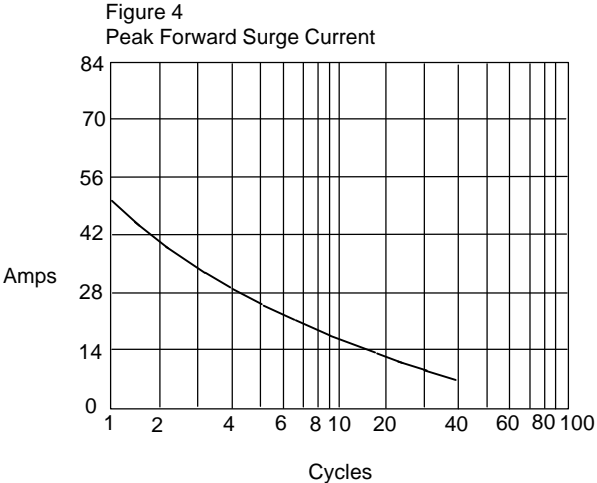
Figure 3  
Junction Capacitance



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

