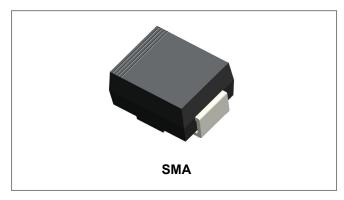






GS2A THRU GS2M 2.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER



Features

- For surface mounted application
- Low forward voltage drop
- High current capability
- High reliability
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- This is a Pb Free Device
- "-HF" suffix is for Halogen Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: SMA molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting Position: AnyWeight: 0.06 grams

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L = 100°C	lo	2.0			Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60		Α					
Rating for fusing (t<8.3ms)	l²t	14.94			A ² s				
Forward Voltage @ I _F = 2.0 A	V _F				1.0				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	5.0 200		μΑ					
Typical Junction Capacitance(Note1)	CJ	12			pF				
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}				50				°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}			-65	to +175				°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

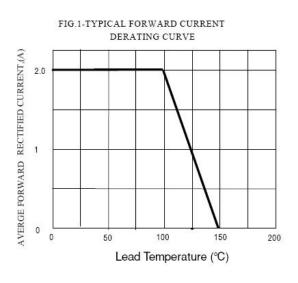
2. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length .

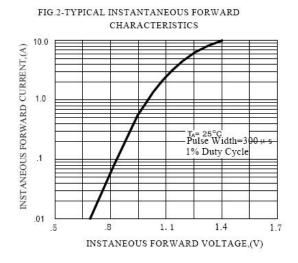


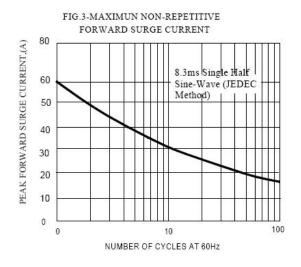


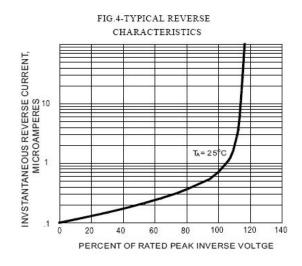


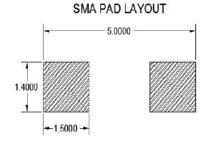
Ratings and Characteristics Curves









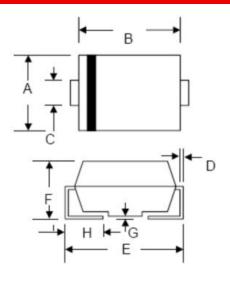








Mechanical Dimensions SMA



SYMBOL	Millir	neters	Inches		
STIVIBUL	Min.	Max.	Min.	Max.	
А	2.40	2.84	0.094	0.112	
В	3.99	4.75	0.157	0.187	
С	1.05	1.70	0.041	0.067	
D	0.15	0.51	0.006	0.020	
E	4.80	5.66	0.189	0.223	
F	1.90	2.95	0.075	0.116	
G	0.05	0.25	0.002	0.010	
Н	0.76	1.52	0.030	0.600	

Ordering Information

Device	Package	Shipping		
GS2A-GS2M	SMA	5000pcs / reel		
GS2ATR-GS2MTR	SMA	5000pcs / reel		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

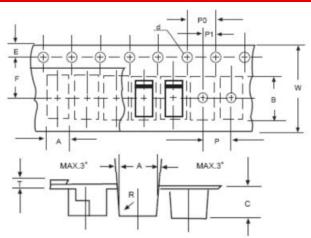
Marking Diagram





First row: Part Number (GS2A, GS2B, GS2D, GS2G, GS2J, GS2K, GS2M)
Second row: YYWWL
HF is Halogen Free
YY is the manufacture year,
WW is the manufacture week code,
L is the wafer's Lot Number

Carrier Tape Specification SMA



SYMBOL	Millimeters			
	Min.	Max.		
Α	2.97	3.17		
В	5.70	5.90		
O	2.32	2.52		
d	1.40	1.60		
E	1.40	1.60		
F	5.60	5.70		
Р	3.90	4.10		
P0	3.90	4.10		
P1	1.90	2.10		
T	0.25	0.35		
W	11.80	12.20		







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