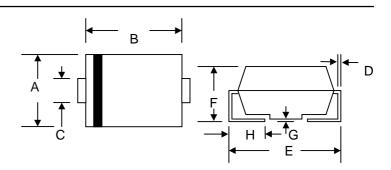


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

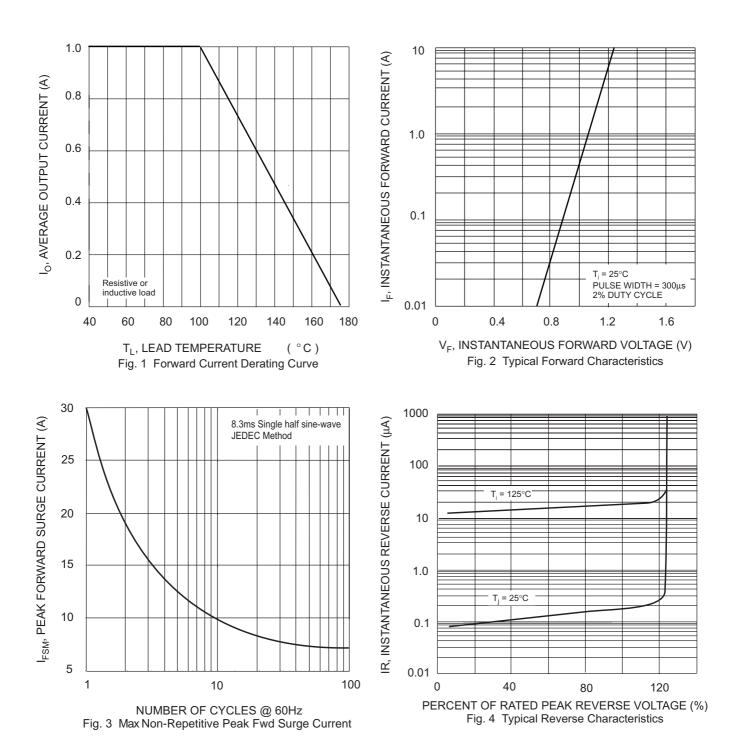
SMA/DO-214AC					
Dim	Min	Max			
Α	2.50	2.90			
В	4.00	4.60			
С	1.40	1.60			
D	0.152	0.305			
E	4.80	5.28			
F	2.00	2.44			
G	0.051	0.203			
Н	0.76	1.52			
All Dimensions in mm					

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

Characteristic		Symbol	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current	@T _L = 100°C	lo				1.0				Α
Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave super rated load (JEDEC Method)		IFSM				30				А
Forward Voltage	@I _F = 1.0A	VFM	1.10				V			
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	IRM				5.0 200				μA
Reverse Recovery Time (Note 1)		trr				2.5				μS
Typical Junction Capacitance (Not	e 2)	Cj				15				pF
Typical Thermal Resistance (Note	3)	R ⊕ JL				30				K/W
Operating and Storage Temperatu	re Range	Тj, Tsтg			-	65 to +17	5			°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

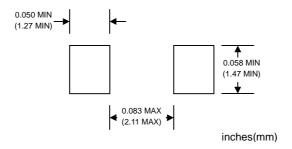
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.



ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity				
GS1A-T1	SMA	1800/Tape & Reel				
GS1A-T3	SMA	5000/Tape & Reel				
GS1B-T1	SMA	1800/Tape & Reel				
GS1B-T3	SMA	5000/Tape & Reel				
GS1D-T1	SMA	1800/Tape & Reel				
GS1D-T3	SMA	5000/Tape & Reel				
GS1G-T1	SMA	1800/Tape & Reel				
GS1G-T3	SMA	5000/Tape & Reel				
GS1J-T1	SMA	1800/Tape & Reel				
GS1J-T3	SMA	5000/Tape & Reel				
GS1K-T1	SMA	1800/Tape & Reel				
GS1K-T3	SMA	5000/Tape & Reel				
GS1M-T1	SMA	1800/Tape & Reel				
GS1M-T3	SMA	5000/Tape & Reel				

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.