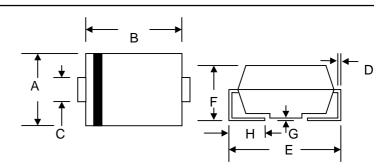


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

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: 0.093 grams (approx.)

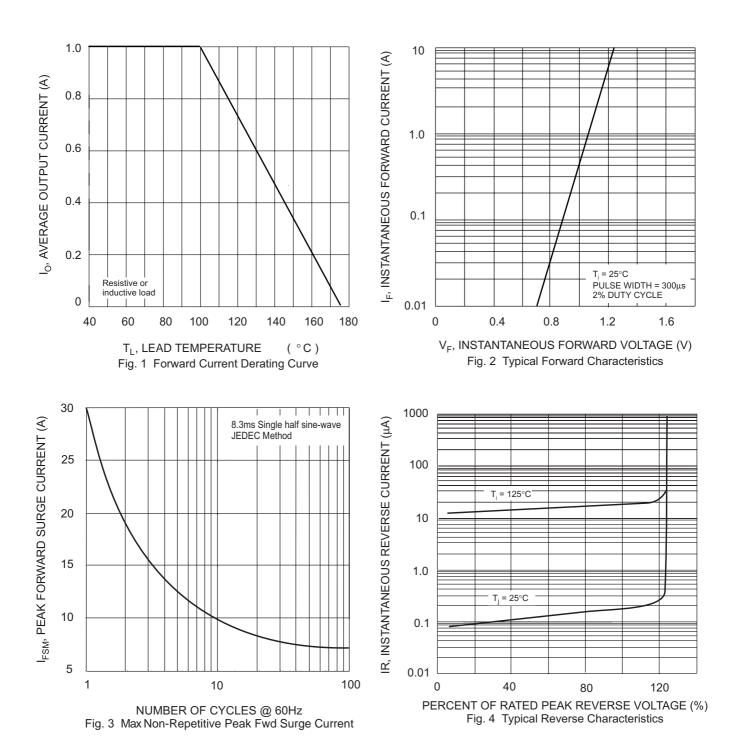
SMB/DO-214AA				
Dim	Min Max			
Α	3.30	3.94		
В	4.06 4.70			
С	1.91	2.11		
D	0.152	0.305		
E	5.08	5.59		
F	2.13	2.44		
G	0.051	0.203		
Н	0.76	1.27		
All Dimensions in mm				

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

Characteristic		Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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 $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

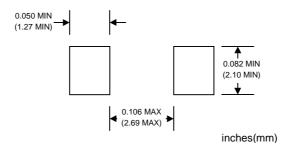
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.



ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity		
S1A-T1	SMB	500/Tape & Reel		
S1A-T3	SMB	3000/Tape & Reel		
S1B-T1	SMB	500/Tape & Reel		
S1B-T3	SMB	3000/Tape & Reel		
S1D-T1	SMB	500/Tape & Reel		
S1D-T3	SMB	3000/Tape & Reel		
S1G-T1	SMB	500/Tape & Reel		
S1G-T3	SMB	3000/Tape & Reel		
S1J-T1	SMB	500/Tape & Reel		
S1J-T3	SMB	3000/Tape & Reel		
S1K-T1	SMB	500/Tape & Reel		
S1K-T3	SMB	3000/Tape & Reel		
S1M-T1	SMB	500/Tape & Reel		
S1M-T3	SMB	3000/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.