## Zibo Seno Electronic Engineering Co., Ltd.





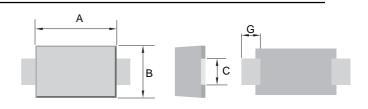




## 1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

#### **Features**

- 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: SMAF, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.037 grams (approx.)
- Lead Free: For RoHS / Lead Free Version

SMAF						
Dim	Min	Max				
Α	3.20	3.60				
В	2.40	2.80				
С	1.38	1.43				
D	0.10	0.20				
Е	4.40	4.80				
F	0.90	1.10				
G	0.90	-				
All Dimensions in mm						

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

Characteristic		Symbo	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	5 0	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 <sub>L</sub> = 100°C		lo	1.0							Α
Non-Repetitive Peak Forward Sur 8.3ms Single half sine-wave super rated load (JEDEC Method)	•	İFSM				30				А
Forward Voltage	@I <sub>F</sub> = 1.0A	VFM	1.10						V	
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 125°C	IRM	5.0 200						μΑ	
Typical Junction Capacitance (No	te 1)	Cj				15				pF
Typical Thermal Resistance (Note	2)	$R_{\theta}$ JL				30				K/W
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150							°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Mounted on P.C. Board with 8.0mm<sup>2</sup> land area.

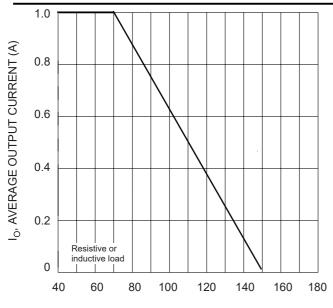
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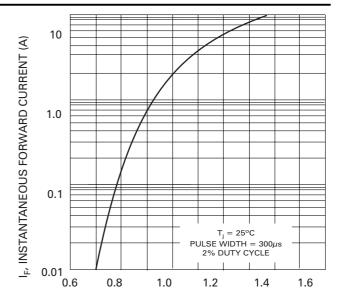
# S1AF-S1MF



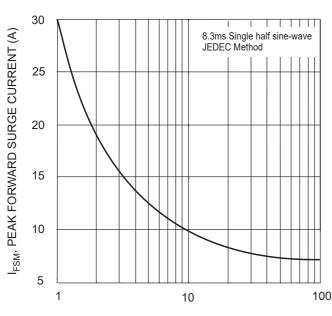




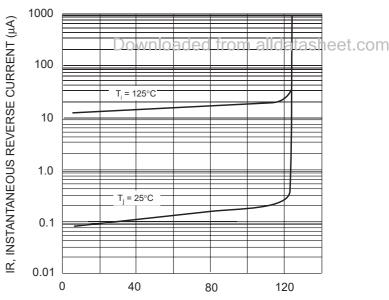
 $T_L$ , LEAD TEMPERATURE ( °C) Fig. 1 Forward Current Derating Curve



V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES @ 60Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 4 Typical Reverse Characteristics