Zibo Seno Electronic Engineering Co., Ltd.



S5ABF - S5MBF

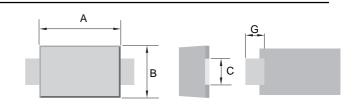




5.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

Features

- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 10 0 A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O





Mechanical Data

- Case: SMBF, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.057 grams (approx.)
- Lead Free: For RoHS / Lead Free Version

SMBF						
Dim	Min	Max				
Α	4.20	4.40				
В	3.50	3.70				
С	1.90	2.20				
D	0.18	0.26				
Е	5.10	5.50				
F	1.10	1.30				
G	1.00	-				
All Dimensions in mm						

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

Characteristic	Symbo	S5ABF	S5BBF	S5DBF	S5GBF	S5JBF	S5KBF	S5MBF	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	V
Average Rectified Output Current @T _L = 100°C	lo	5.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100					А		
Forward Voltage @I _F = 5.0A	VFM	1.10						V	
	I RM	5.0 200						μΑ	
Typical Junction Capacitance (Note 1)	Cj	15			pF				
Typical Thermal Resistance (Note 2)	$R_{ heta}JL$				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^2 land area.

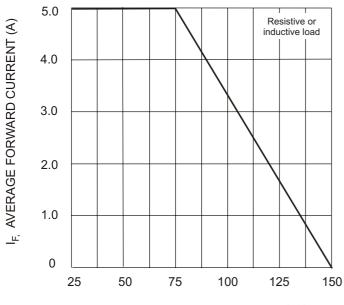
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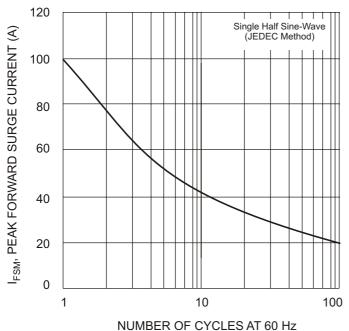






T_T, TERMINAL TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve

 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



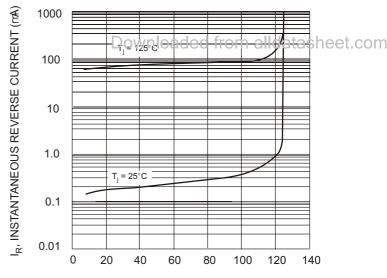


Fig. 3 Forward Surge Current Derating Curve

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