Zibo Seno Electronic Engineering Co., Ltd.



S1ZB05 - S1ZB100(SMD)

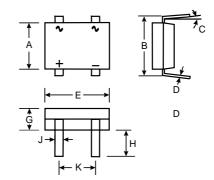




0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- High Surge Current Capability
- **Designed for Surface Mount Application**
- Plastic Material UL Flammability 94V-O



1Z(THD)						
Dim	Min	Max				
Α	3.65	4.10				
В	4.95	5.21				
С	0	10°				
D	0.15	0.41				
E	4.50	4.95				
G	2.30	2.70				
Н	2.54					
J	0.43	0.74				
K	2.41	2.67				
All Dimensions in mm						

Mechanical Data

Case: 1Z (THD), Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: As Marked on Case Weight: 0.22 grams (approx.)

Mounting Position: Any

Marking: Type Number

Lead Free: For RoHS / Lead Free Version

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	S1ZB 05	S1ZB 10	S1ZB 20	S1ZB 40	S1ZB 60	S1ZB 80	S1ZB 100	Unit
Device marking code		Z05	Z10	Z20	Z40	Z60	Z80	Z100	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) $@T_A = 40^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo	0.8						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30				Α			
I ² t Rating for Fusing (t < 8.3ms)	l ² t	5.0							A ² s
Forward Voltage per element @I _F = 0.5A	VFM	1.0					V		
	Irm	5.0 500							μΑ
Typical Junction Capacitance per leg (Note 3)	Cj	13							pF
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	70 20				°C/W			
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150						°C	

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

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- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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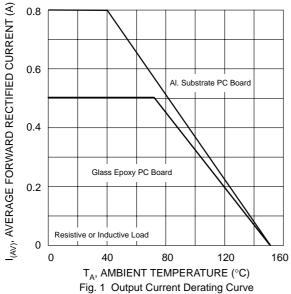
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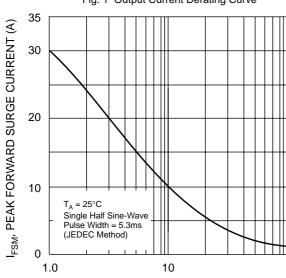


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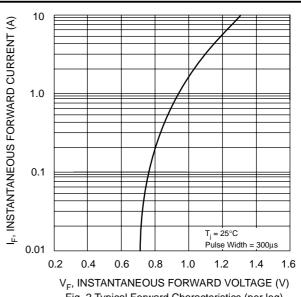








NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Peak Forward Surge Current (per leg)



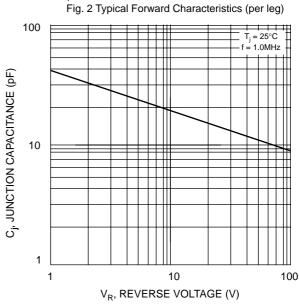
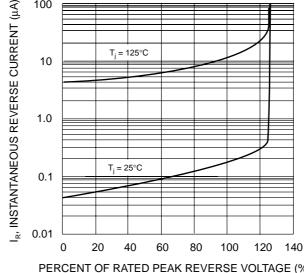


Fig. 4 Typical Junction Capacitance



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics (per element)