Zibo Seno Electronic Engineering Co., Ltd.



R05S - R10S

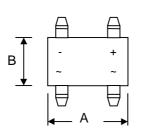


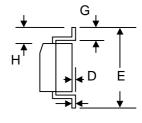


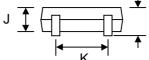
0.8A FAST RECOVERY SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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







MB-S								
Dim	Min	Max						
Α	4.50	4.95						
В	3.60	4.10						
С	0.15	0.35						
D		0.20						
Е	6.40	7.00						
G	0.50	1.10						
Н	1.30	1.70						
J	2.30	2.70						
K	2.30	2.70						
L	_	3.00						
All Dimensions in mm								

Mechanical Data

Case: MB-S, 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 @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	R05S	R1S	R2S	R4S	R6S	R8S	R10S	Unit
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	V
Average Rectified Output Current (Note 1) $@T_A = 40$ °C Average Rectified Output Current (Note 2) $@T_A = 40$ °C	lo	0.5 0.8							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	5.0							A ² s
Forward Voltage per element @I _F = 0.8A	VFM	1.3							V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	5.0 500							μΑ
Reverse Recovery Time (Note 4)	trr	150			250	250 500		nS	
Typical Junction Capacitance per leg (Note 3)	Cj	13							pF
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	62.5 25							°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.

- 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.
- 4. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

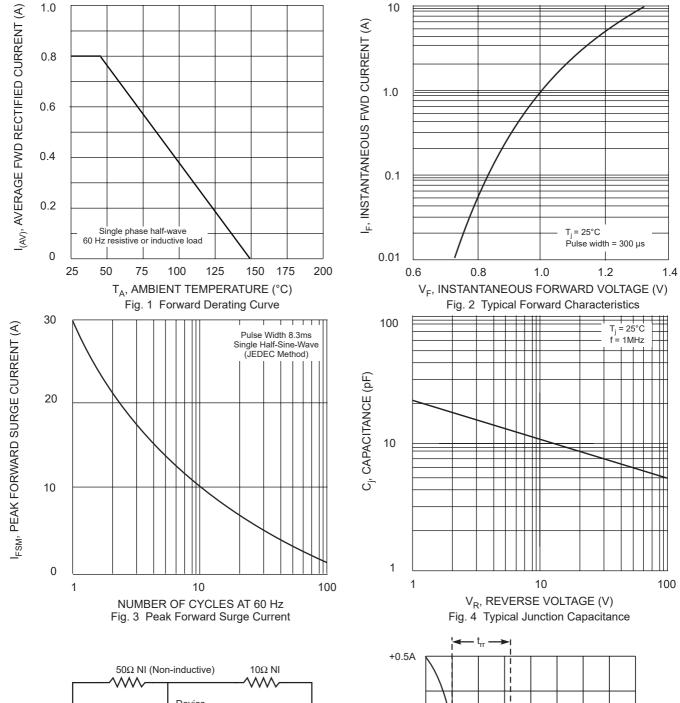
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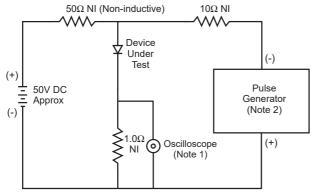


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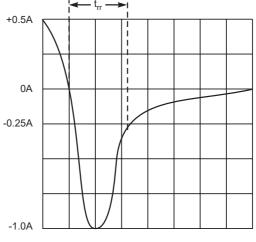






1. Rise Time = 7.0ns max. Input Impedance = $1.0M\Omega$, 22pF.

2. Rise Time = 10ns max. Input Impedance = 50Ω .



Set time base for 5/10ns/cm

5 Reverse Recovery Time Characteristic and Test Circuit