Zibo Seno Electronic Engineering Co., Ltd.

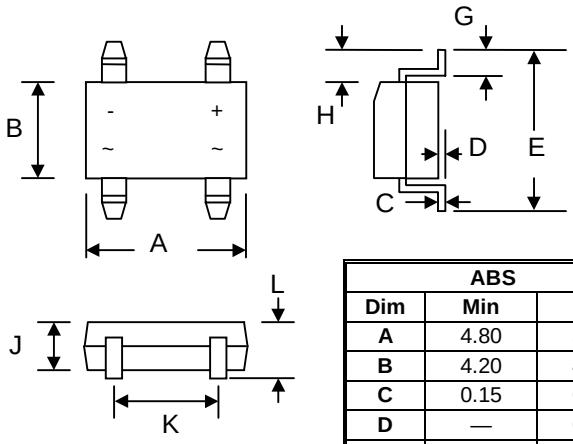
淄博圣诺

EABS151 – EABS156

1.5A SUPER FAST 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



ABS		
Dim	**Min**	**Max**
A	4.80	5.30
B	4.20	4.60
C	0.15	0.25
D	—	0.20
E	6.00	6.80
G	0.30	0.70
H	0.90	1.10
J	—	1.50
K	3.80	4.20
L	1.22	1.72
All Dimensions in mm		

Mechanical Data

- Case: SOPA-4, ABS, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- 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	EABS1	EABS2	EABS4	EABS6	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	560	V
Average Rectified Output Current (Note 1) @T_A = 40°C Average Rectified Output Current (Note 2) @T_A = 40°C	I_O	1.5				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50				A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	5.0				A^2s
Forward Voltage per element @I_F = 1.0A	V_{FM}	0.95		1.25	1.7	V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 125°C	I_{RM}	5.0 500				μA
Reverse Recovery Time (Note 4)	t_{rr}	35				nS
Typical Junction Capacitance per leg (Note 3)	C_j	13				pF
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25				°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150				°C

Note: 1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.
2. Mounted on aluminum substrate PC board with 1.3mm^2 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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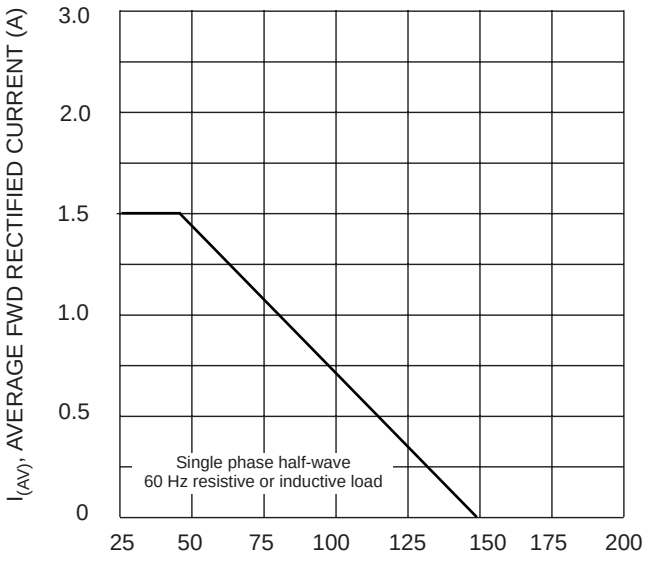


Fig. 1 Forward Derating Curve

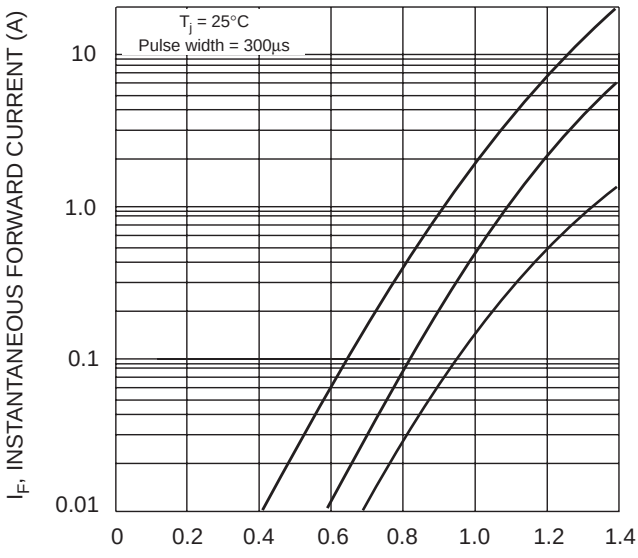


Fig. 2 Typical Forward Characteristics

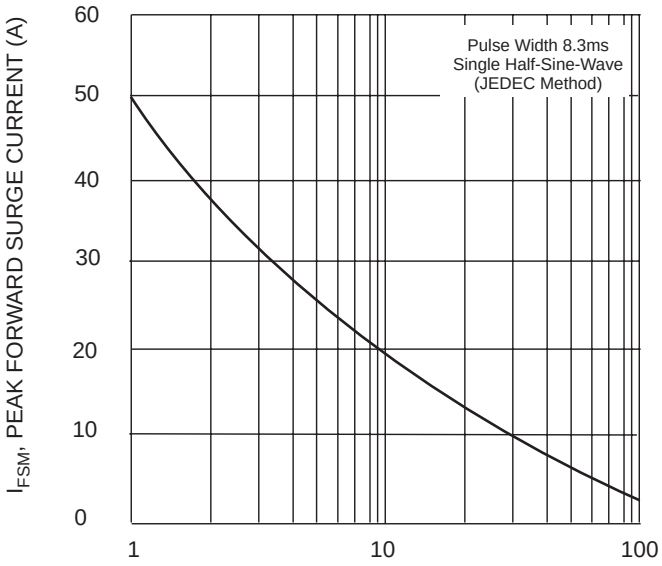


Fig. 3 Peak Forward Surge Current

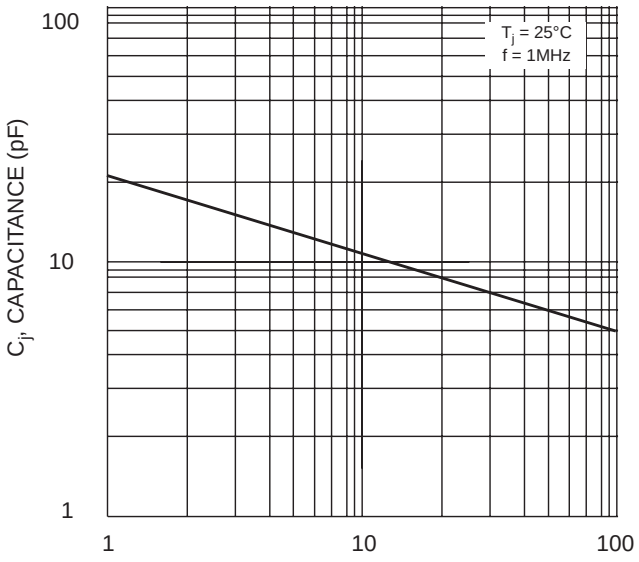
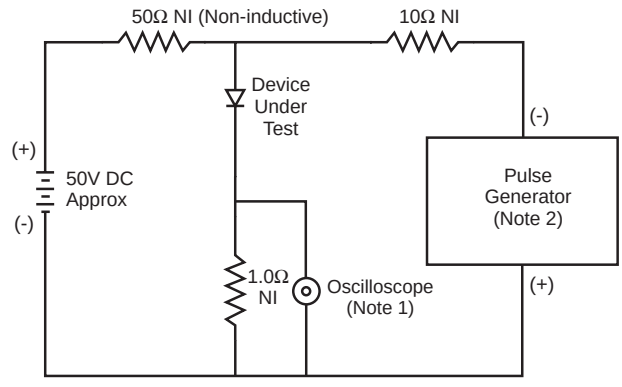
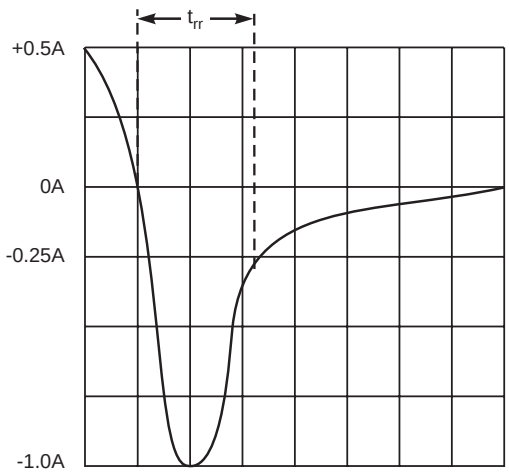


Fig. 4 Typical Junction Capacitance



Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
2. Rise Time = 10ns max. Input Impedance = 50Ω.



5 Reverse Recovery Time Characteristic and Test Circuit

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