## Zibo Seno Electronic Engineering Co.,Ltd.



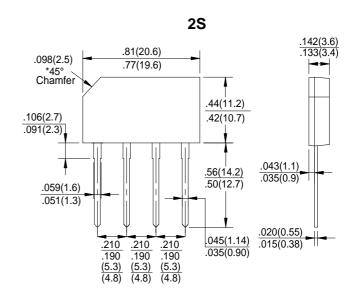
### 2.0A BRIDGE RECTIFIER

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

#### **Mechanical Data**

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



Dimensions in inches and (milimeters)

## 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	D2SB 05	D2SB 10	D2SB 20	D2SB 40	D2SB 60	D2SB 80	D2SB 100	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 (Note 1) @T <sub>A</sub> = 50°C	lo	2.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80						А	
Forward Voltage (per element) @I <sub>F</sub> = 2.0A	VFM	1.0						V	
	lгм	2 500							μΑ
Typical Thermal Resistance (Note 3)	$R_{ heta}JA$	30						K/W	
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150							°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance junction to ambient mounted on PC board with 12mm<sup>2</sup> copper pad.

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# D2SB05 - D2SB100 🕲





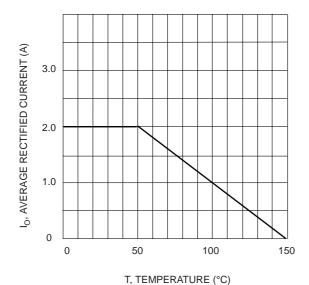
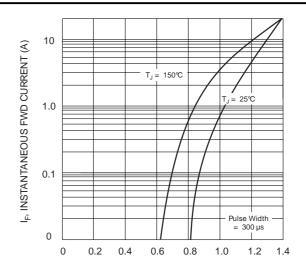


Fig. 1 Forward Current Derating Curve



V<sub>F</sub>, INSTANTANEOUS FWD VOLTAGE (V)

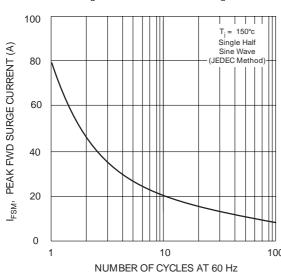


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

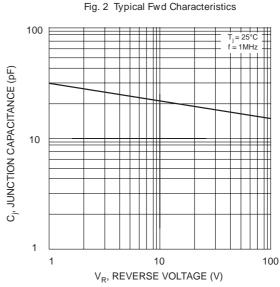
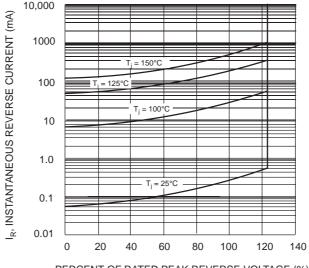


Fig. 4 Typical Junction Capacitance



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