## Zibo Seno Electronic Engineering Co., Ltd.



2.0A FAST RECOVERY DIODE

### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

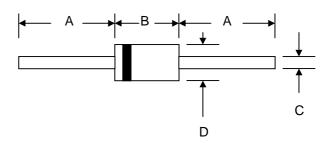
### **Mechanical Data**

Case: DO-15, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band
Weight: 0.40 grams (approx.)
Mounting Position: Any
Marking: Type Number

Lead Free: For RoHS / Lead Free Version



DO-15							
Dim	Min	Max					
Α	24.5	_					
В	5.50	7.62					
С	0.60	0.80					
D	2.60	3.60					
All Dimensions in mm							

## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	FR201	FR202	FR203	FR204	FR205	FR206	FR207	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> = 75°C	lo	2.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	60						Α	
Forward Voltage @I <sub>F</sub> = 2.0A	VFM	1.3						٧	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	5.0 100							μΑ
Reverse Recovery Time (Note 2)	trr		1	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Cj	30						pF	
Operating Temperature Range	Tj	-65 to +150						°C	
Storage Temperature Range	Тѕтс	-65 to +150					°C		

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

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

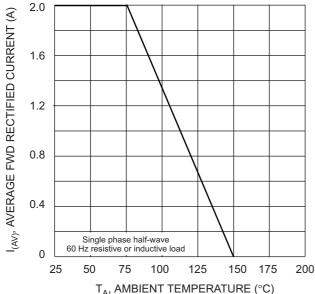
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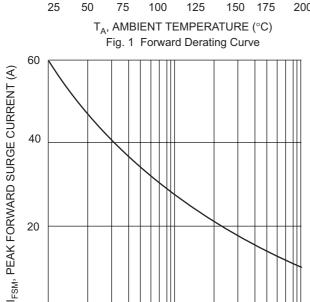


# FR201 – FR207 🚱



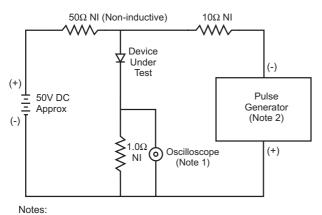






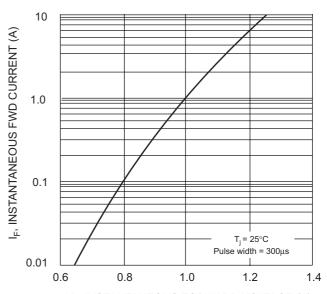
10 NUMBER OF CYCLES AT 60Hz Fig. 3 Peak Forward Surge Current

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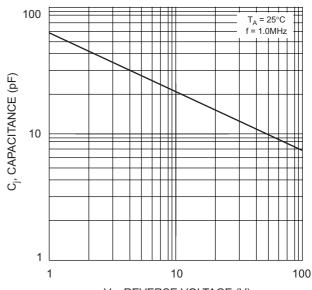


1. Rise Time = 7.0ns max. Input Impedance =  $1.0M\Omega$ , 22pF.

2. Rise Time = 10ns max. Input Impedance =  $50\Omega$ .



V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



V<sub>R</sub>, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

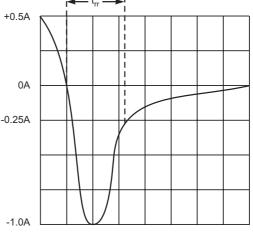


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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