Zibo Seno Electronic Engineering Co., Ltd.



R1500F - R4000F





HIGH VOLTAGE RECTIFIER

Features

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

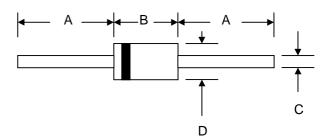
Mechanical Data

Case: Molded Plastic

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

Polarity: Cathode BandWeight: 0.35 grams (approx.)Mounting Position: Any

Marking: Type NumberLead Free: For RoHS / Lead Free Version



DO-41					
Dim	Min	Max			
Α	24.5	_			
В	4.06	5.21			
С	0.60	0.80			
D	2.00	3.00			
All Dimensions in mm					

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	R1500F	R2000F	R3000F	R4000F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	1500	2000	3000	4000	V
RMS Reverse Voltage	VR(RMS)	1050	1400	2100	2800	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo	500 200		00	mA	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30 25		А		
Forward Voltage @I _F = Io	VFM	3.0			V	
	lкм	5.0 50				μА
Reverse Recovery Time (Note 2)	trr	400			nS	
Typical Junction Capacitance (Note 2)	Cj	C _j 7.0			pF	
Typical Thermal Resistance Junction to Ambient (Note 1)	R⊕JA	117			K/W	
Operating Temperature Range	Tj	-55 to +150			°C	
Storage Temperature Range	Тѕтс	-55 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 1.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0 V D.C.

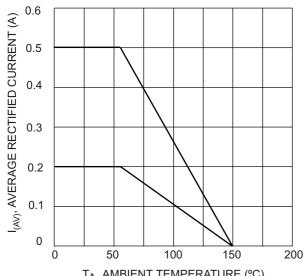
Zibo Seno Electronic Engineering Co., Ltd.



R1500F - R4000F







T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve

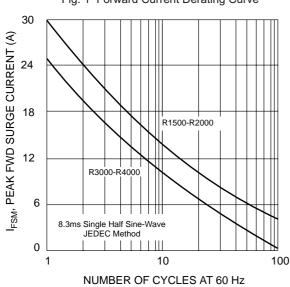
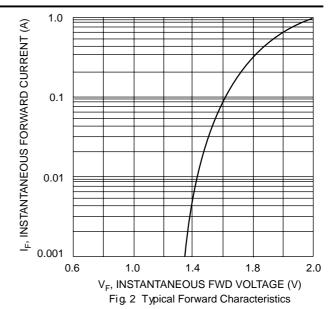
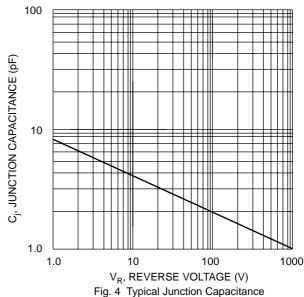


Fig. 3 Peak Fwd Surge Current vs # of Cycles @ 60 Hz





50Ω NI (Non-inductive) 10Ω NI Device Under Pulse 50V DC Generator Approx (Note 2) 1.0Ω (+) Oscilloscope (0) NI

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

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

