## Zibo Seno Electronic Engineering Co., Ltd.



# **SR230L – SR2200L**

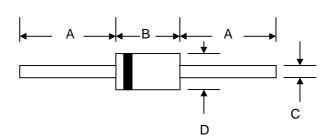




### 2.0A LOW VF SCHOTTKY BARRIER DIODE

#### **Features**

- Low VF Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



#### **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: AnyMarking: 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 @TA=25°C unless otherwise specified

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

Characteristic	Symbol	SR230L	SR240L	SR245L	SR250L	SR260L	SR280L	SR2100L	SR2150L	SR2200L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	40	45	50	60	80	100	150	200	V
RMS Reverse Voltage	VR(RMS)	21	28	31.5	35	42	56	70	105	140	V
Average Rectified Output Current @T <sub>L</sub> = 75°C (Note 1)	lo	2.0								Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60							А		
Forward Voltage @I <sub>F</sub> = 2.0A	VFM	0.45 0.5 0.75 0.8					.85	V			
	lкм	0.2 10 0.1 5							mA		
Typical Junction Capacitance (Note 2)	Cj	220 180							pF		
Typical Thermal Resistance (Note 1)	$R_{ heta}JA$	75							°C/W		
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150								°C	

Note: 1. Valid provided that leads are kept 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.

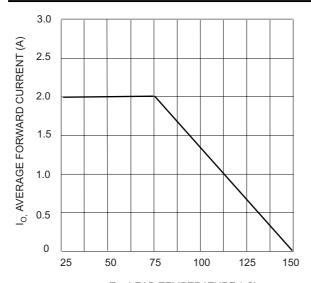
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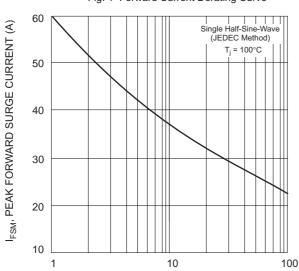
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T<sub>L</sub>, LEAD TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

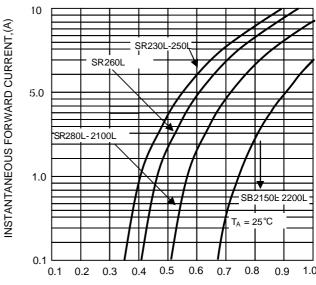


Fig. 2 INSTANTANEOUS FORWARD VOLTAGE, (V)

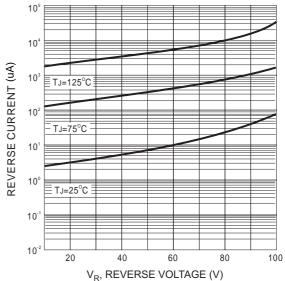


Fig. 4 Typical Junction Capacitance

