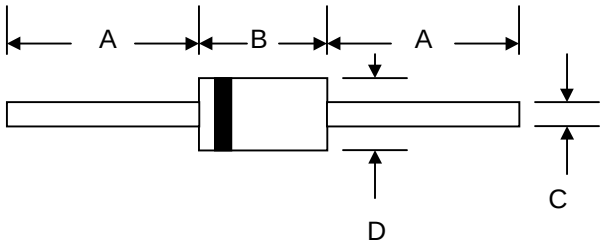
SR220 – SR2100

2.0A SCHOTTKY BARRIER DIODE

Features

- 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: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

DO-15		
Dim	**Min**	**Max**
A	25.4	—
B	5.50	7.62
C	0.71	0.864
D	2.60	3.60
All Dimensions in mm		

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	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	80	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	70	V
Average Rectified Output Current @T_L = 100°C (Note 1)	I_O	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
Forward Voltage @I_F = 2.0A	V_{FM}	0.50			0.70		0.85		V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	0.5 10							mA
Typical Junction Capacitance (Note 2)	C_j	170			140				pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	35							°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 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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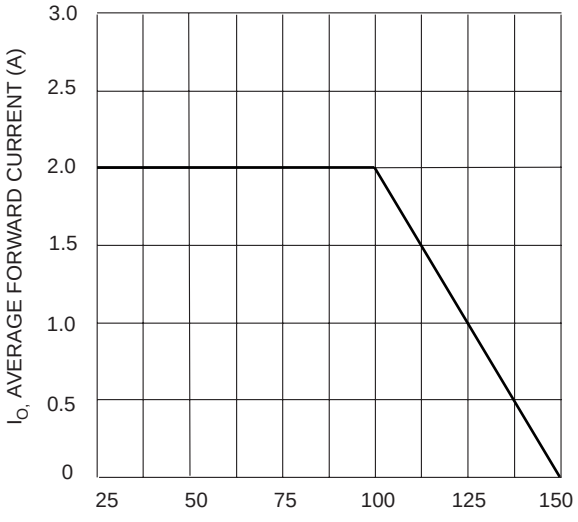


Fig. 1 Forward Current Derating Curve

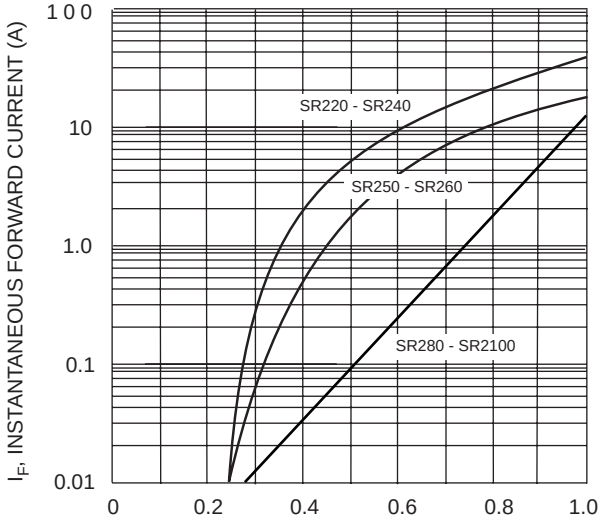


Fig. 2 Typical Forward Characteristics

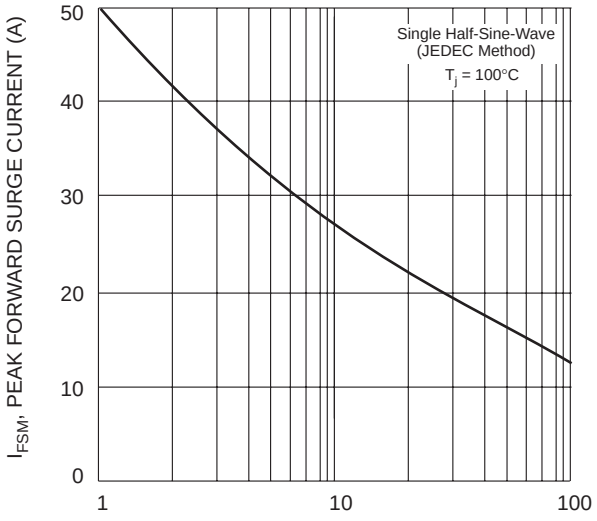


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

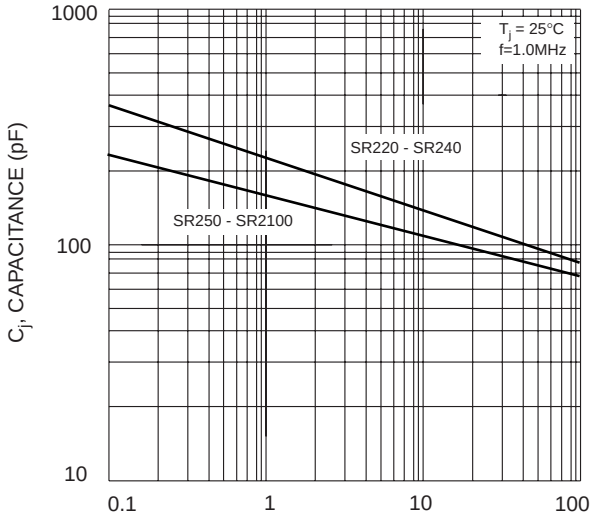


Fig. 4 Typical Junction Capacitance

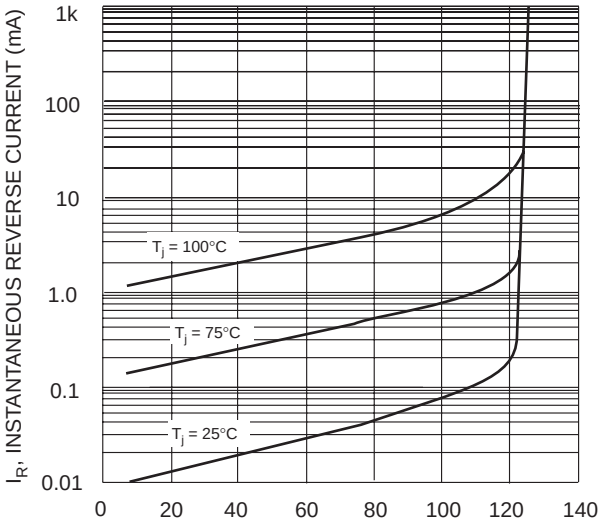
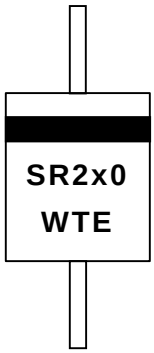


Fig. 5 Typical Reverse Characteristics

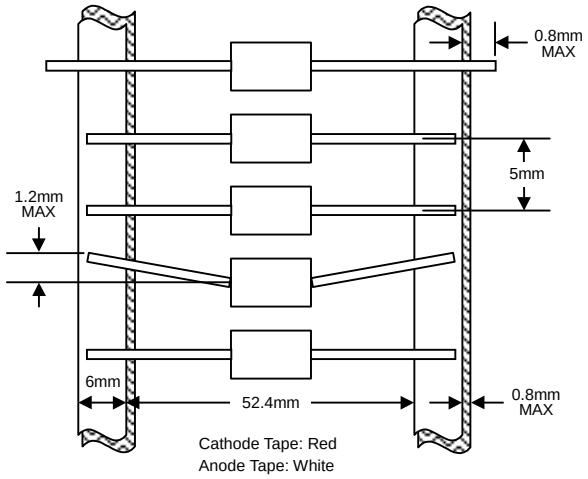
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MARKING INFORMATION



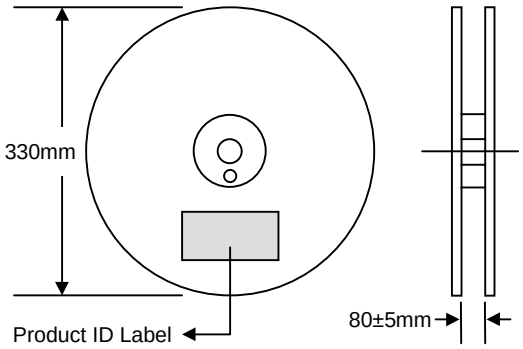
Cathode	= Polarity Band
SR2x0	= Device Number
x	= 2, 3, 4, 5, 6, 8 or 10
WTE	= Manufacturer's Logo

TAPING SPECIFICATIONS

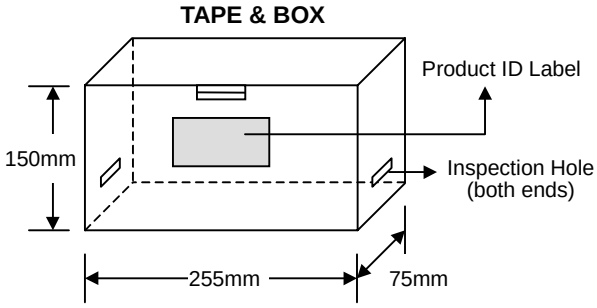


PACKAGING INFORMATION

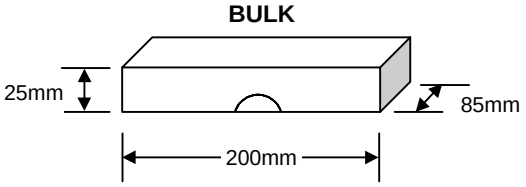
TAPE & REEL



TAPE & BOX



BULK



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	4,000	370 x 370 x 420	20,000	12.0
TAPE & BOX	255 x 75 x 150	3,000	400 x 273 x 415	30,000	15.0
BULK	200 x 85 x 25	1,000	459 x 214 x 256	40,000	17.5

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
2. Components are packed in accordance with EIA standard RS-296-E.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SR220-T3	DO-15	4000/Tape & Reel
SR220-TB	DO-15	3000/Tape & Box
SR220	DO-15	1000 Units/Box
SR230-T3	DO-15	4000/Tape & Reel
SR230-TB	DO-15	3000/Tape & Box
SR230	DO-15	1000 Units/Box
SR240-T3	DO-15	4000/Tape & Reel
SR240-TB	DO-15	3000/Tape & Box
SR240	DO-15	1000 Units/Box
SR250-T3	DO-15	4000/Tape & Reel
SR250-TB	DO-15	3000/Tape & Box
SR250	DO-15	1000 Units/Box
SR260-T3	DO-15	4000/Tape & Reel
SR260-TB	DO-15	3000/Tape & Box
SR260	DO-15	1000 Units/Box
SR280-T3	DO-15	4000/Tape & Reel
SR280-TB	DO-15	3000/Tape & Box
SR280	DO-15	1000 Units/Box
SR2100-T3	DO-15	4000/Tape & Reel
SR2100-TB	DO-15	3000/Tape & Box
SR2100	DO-15	1000 Units/Box

1. Products listed in **bold** are WTE **Preferred** devices.
2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
3. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SR220-TB-LF**.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.

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