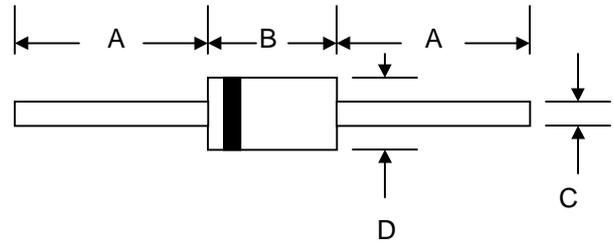


### Features

- 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: 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

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<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	SR220	SR230	SR240	SR250	SR260	Unit	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>						V	
Working Peak Reverse Voltage	V <sub>RWM</sub>	20	30	40	50	60		
DC Blocking Voltage	V <sub>R</sub>							
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	V	
Average Rectified Output Current (Note 1) @T <sub>L</sub> = 100°C	I <sub>O</sub>	2.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50						A
Forward Voltage @I <sub>F</sub> = 2.0A	V <sub>FM</sub>	0.50			0.70		V	
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	I <sub>RM</sub>	0.5 10					mA	
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	170			140		pF	
Typical Thermal Resistance Junction to Lead	R <sub>θJL</sub>	15					K/W	
Typical Thermal Resistance Junction to Ambient (Note 1)	R <sub>θJA</sub>	50					K/W	
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-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.

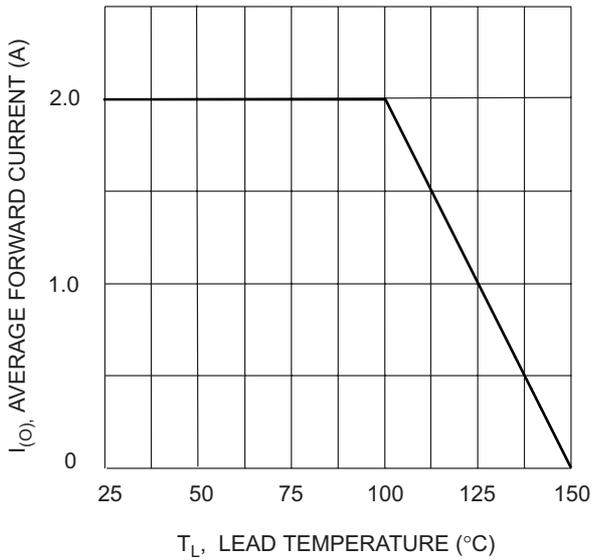


Fig. 1 Forward Current Derating Curve

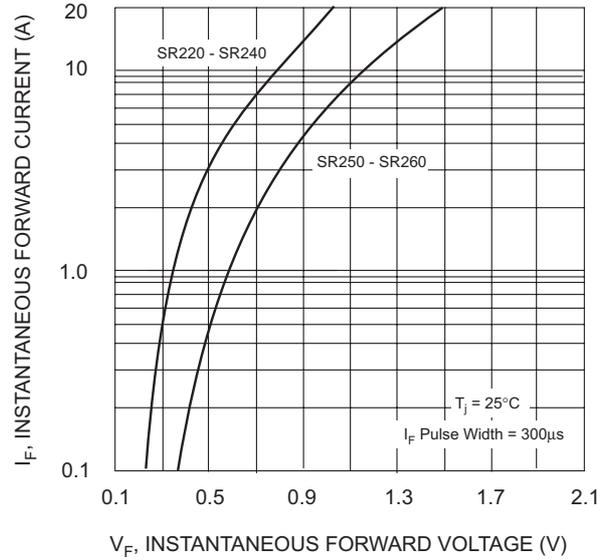


Fig. 2 Typical Forward Characteristics

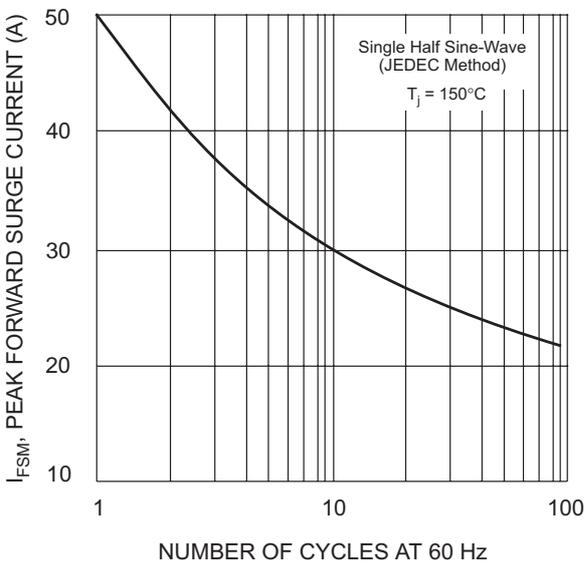


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

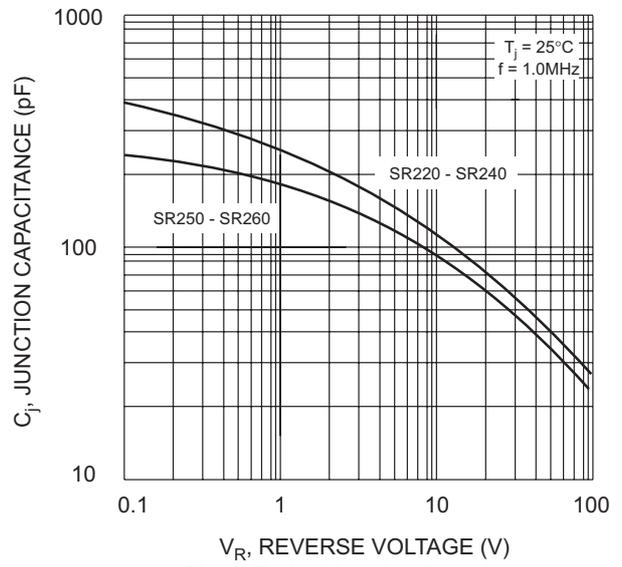


Fig. 4 Typical Junction Capacitance

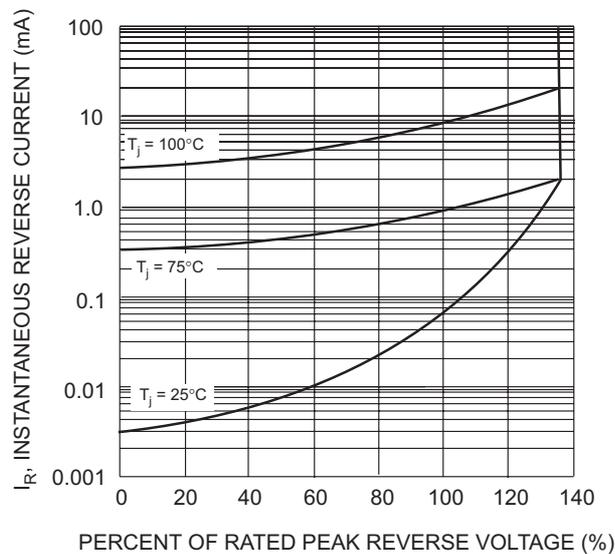


Fig. 5 Typical Reverse Characteristics

## ORDERING INFORMATION

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

Products listed in **bold** are WTE **Preferred** devices.

♦T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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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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