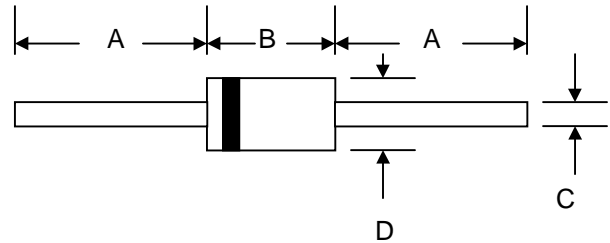


### Features

- 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: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

DO-201AD		
Dim	Min	Max
A	25.4	—
B	8.50	9.50
C	1.20	1.30
D	5.0	5.60
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	SR520	SR530	SR540	SR550	SR560	Unit	
Peak Repetitive Reverse Voltage	$V_{RRM}$						V	
Working Peak Reverse Voltage	$V_{RWM}$	20	30	40	50	60		
DC Blocking Voltage	$V_R$							
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V	
Average Rectified Output Current (Note 1) @ $T_L = 100^\circ\text{C}$	$I_O$	5.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150						A
Forward Voltage @ $I_F = 5.0\text{A}$	$V_{FM}$	0.55			0.70		V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	$I_{RM}$	0.5 50					mA	
Typical Junction Capacitance (Note 2)	$C_j$	550			400		pF	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	10					K/W	
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150					$^\circ\text{C}$	

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.

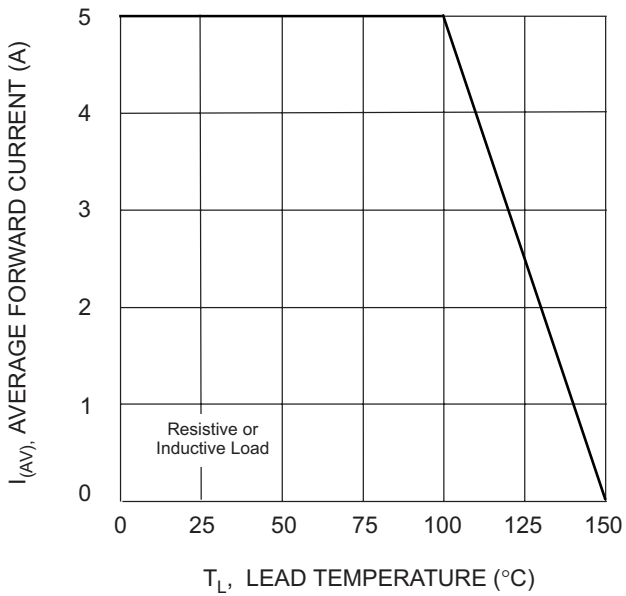


Fig. 1 Forward Current Derating Curve

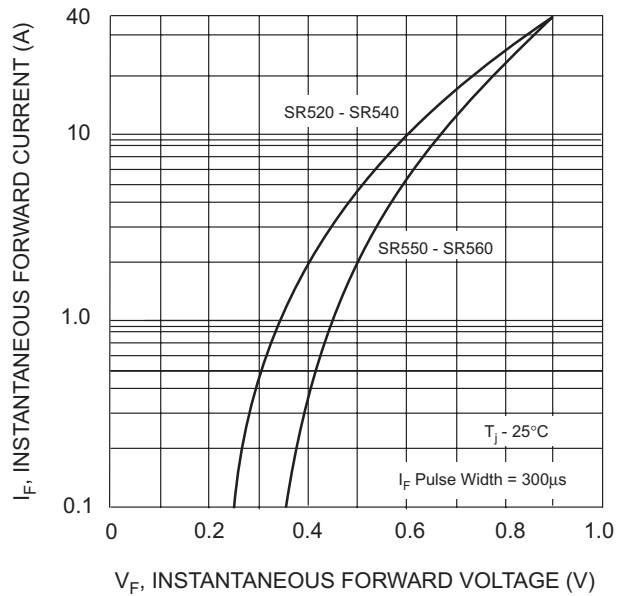


Fig. 2 Typical Forward Characteristics

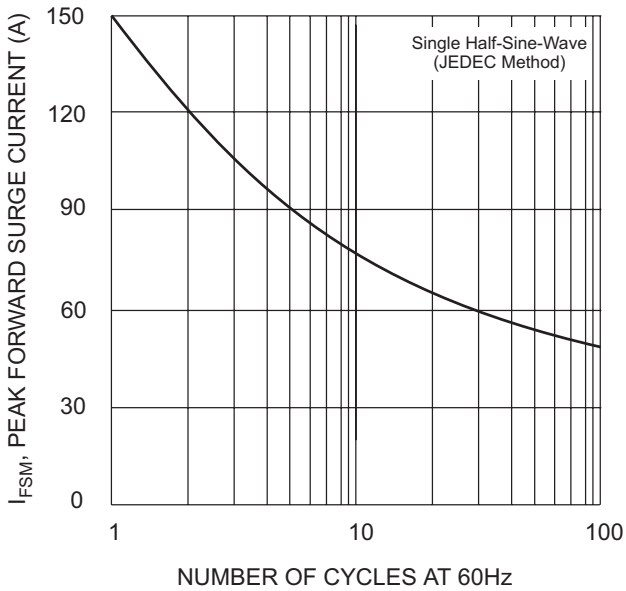


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

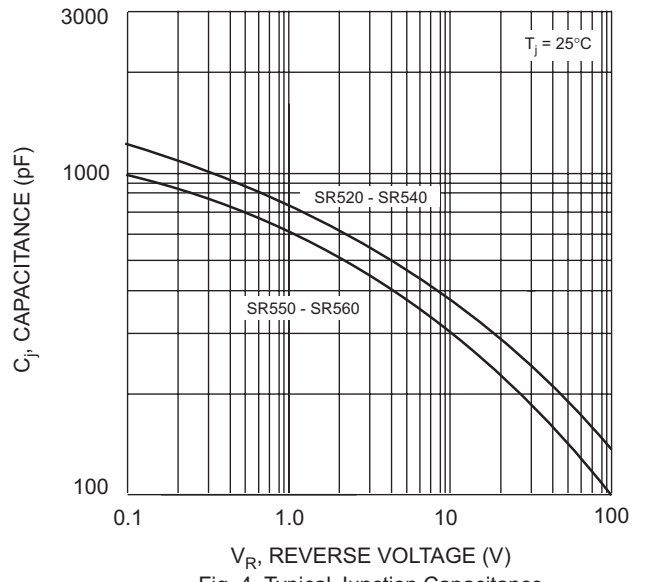


Fig. 4 Typical Junction Capacitance

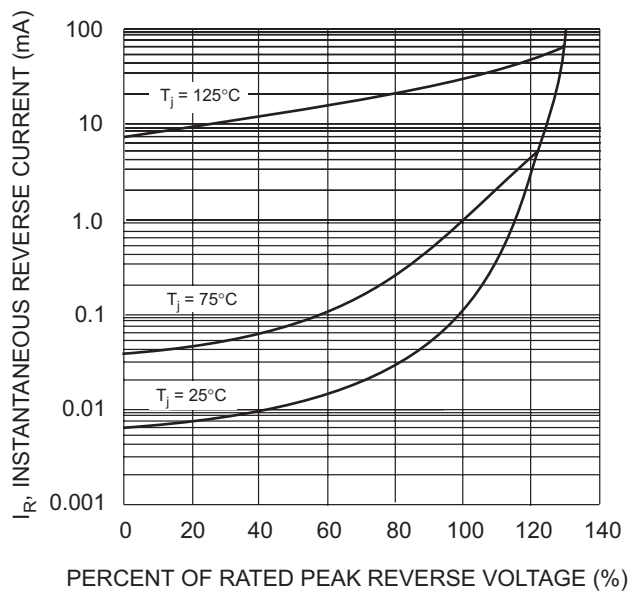


Fig. 5 Typical Reverse Characteristics

## ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SR520-T3	DO-201AD	1200/Tape & Reel
<b>SR520-TB</b>	DO-201AD	1200/Tape & Box
SR520	DO-201AD	500 Units/Box
SR530-T3	DO-201AD	1200/Tape & Reel
<b>SR530-TB</b>	DO-201AD	1200/Tape & Box
SR530	DO-201AD	500 Units/Box
SR540-T3	DO-201AD	1200/Tape & Reel
<b>SR540-TB</b>	DO-201AD	1200/Tape & Box
SR540	DO-201AD	500 Units/Box
SR550-T3	DO-201AD	1200/Tape & Reel
<b>SR550-TB</b>	DO-201AD	1200/Tape & Box
SR550	DO-201AD	500 Units/Box
SR560-T3	DO-201AD	1200/Tape & Reel
<b>SR560-TB</b>	DO-201AD	1200/Tape & Box
SR560	DO-201AD	500 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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