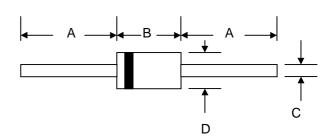


SR520 - SR560

5.0A SCHOTTKY BARRIER RECTIFIER

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			
Α	25.4	_			
В	8.50	9.50			
С	1.20	1.30			
D	5.0	5.60			
All Dimensions in mm					

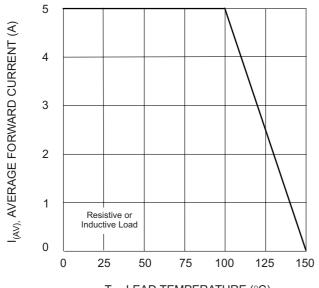
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

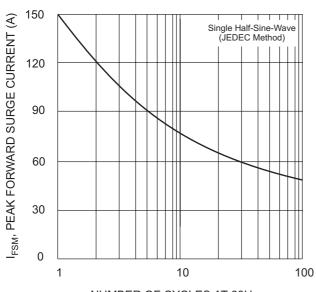
Characteristic	Symbol	SR520	SR530	SR540	SR550	SR560	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	٧
Average Rectified Output Current (Note 1) @T _L = 100°C	lo	5.0				А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150			А		
Forward Voltage @I _F = 5.0A	VFM	0.55 0.70		70	٧		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	0.5 50			mA		
Typical Junction Capacitance (Note 2)	Cj		550		40	00	pF
Typical Thermal Resistance Junction to Ambient	R_{θ} JA	10			K/W		
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150			°C		

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

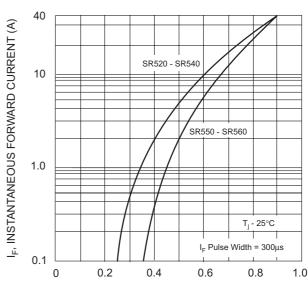
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



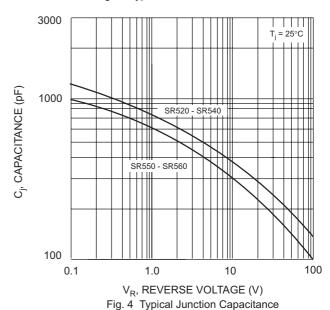
 T_L , LEAD TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



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



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



100 T_j = 125°C NAMED ON 1 NAMED ON 1

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

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

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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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.