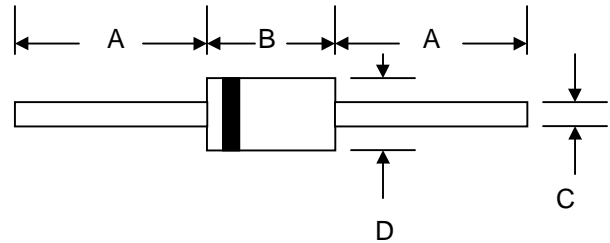


Features

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

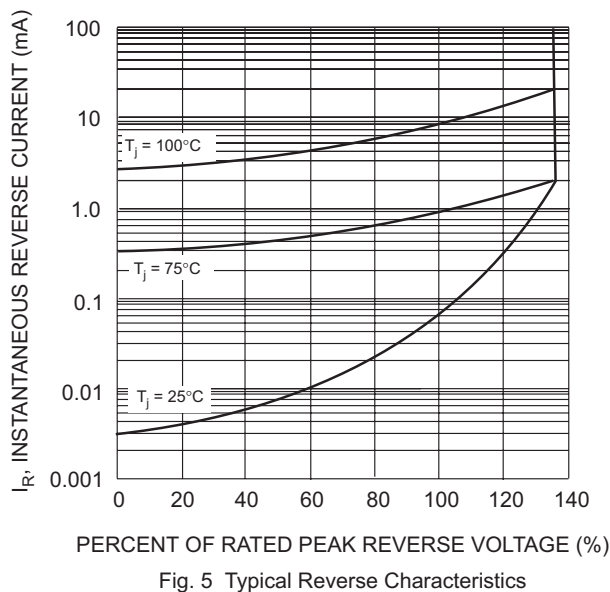
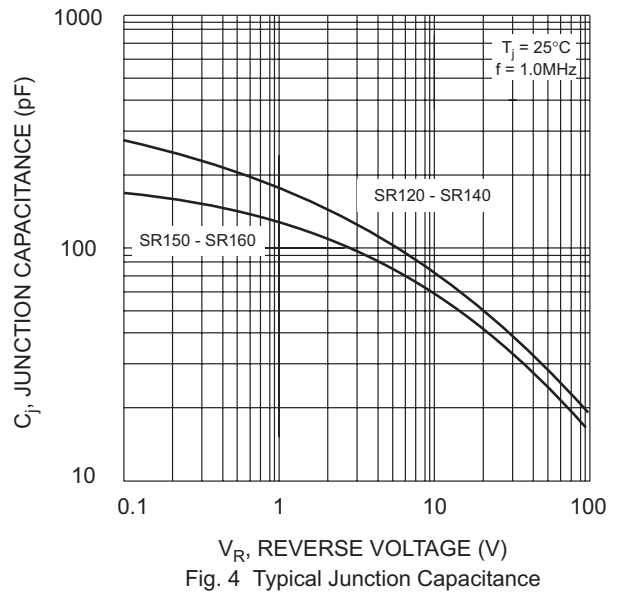
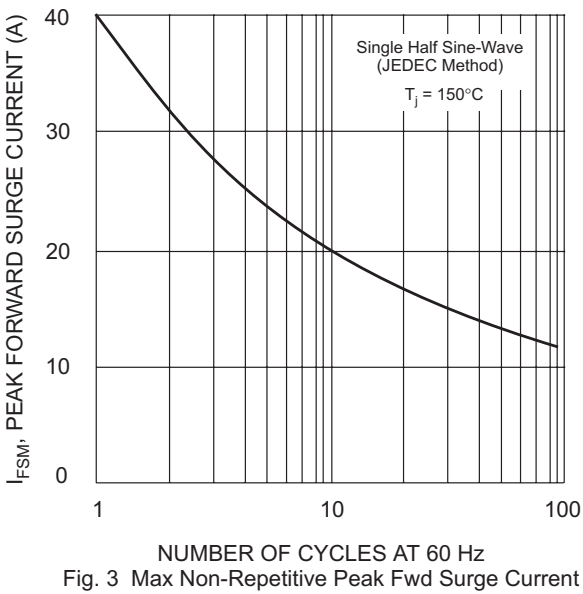
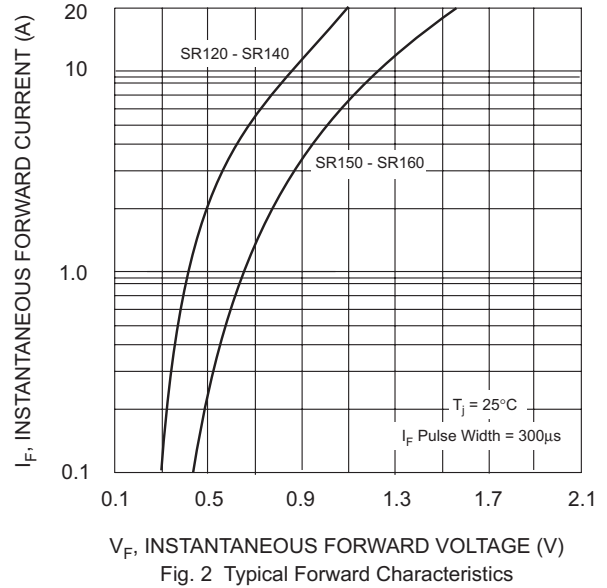
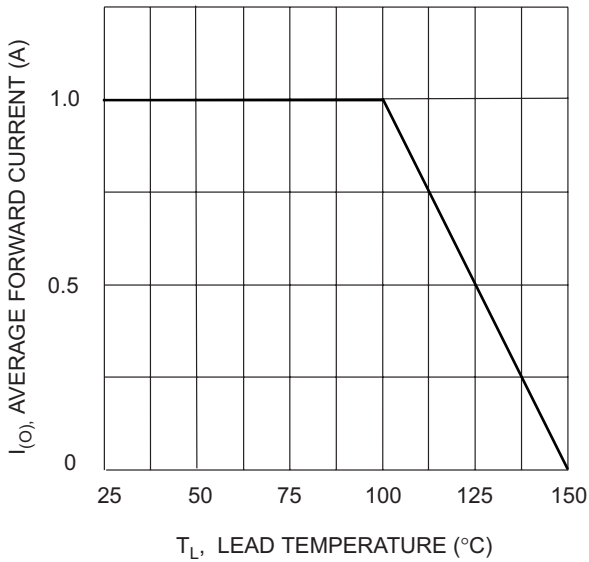
DO-41		
Dim	Min	Max
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

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	SR120	SR130	SR140	SR150	SR160	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	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40					A
Forward Voltage @ $I_F = 1.0\text{A}$	V_{FM}	0.50			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 10					mA
Typical Junction Capacitance (Note 2)	C_j	110			80		pF
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	15					K/W
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	50					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.



ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SR120-T3	DO-41	5000/Tape & Reel
SR120-TB	DO-41	5000/Tape & Box
SR120	DO-41	1000 Units/Box
SR130-T3	DO-41	5000/Tape & Reel
SR130-TB	DO-41	5000/Tape & Box
SR130	DO-41	1000 Units/Box
SR140-T3	DO-41	5000/Tape & Reel
SR140-TB	DO-41	5000/Tape & Box
SR140	DO-41	1000 Units/Box
SR150-T3	DO-41	5000/Tape & Reel
SR150-TB	DO-41	5000/Tape & Box
SR150	DO-41	1000 Units/Box
SR160-T3	DO-41	5000/Tape & Reel
SR160-TB	DO-41	5000/Tape & Box
SR160	DO-41	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.

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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417

Email: sales@wontop.com

Internet: <http://www.wontop.com>

We power your everyday.