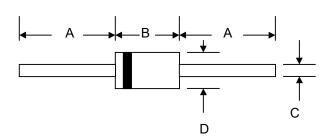


SR120 - SR160

1.0A 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: 0.34 grams (approx.)

Mounting Position: Any

Marking: Type Number

DO-41					
Dim	Min	Max			
Α	25.4	_			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA=25°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 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	V
Average Rectified Output Current (Note 1) @T _L = 100°C		lo	1.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		lfsm	40			Α		
Forward Voltage	@I _F = 1.0A	VFM	0.50 0.70		70	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM			0.5 10			mA
Typical Junction Capacitance (Note 2)		Cj	110 80		0	pF		
Typical Thermal Resistance Junction to Lead		R_{θ} JL	15			K/W		
Typical Thermal Resistance Junction to Ambient (Note 1)		$R_{ heta}$ JA	50					K/W
Operating and Storage Temperature Range		Тj, Тsтg	-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.

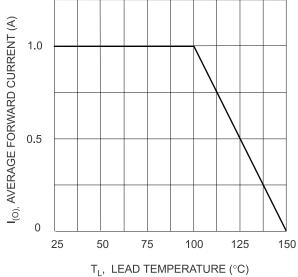
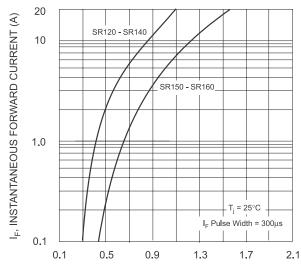
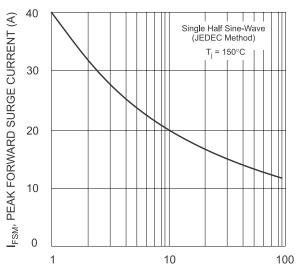


Fig. 1 Forward Current Derating Curve



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



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

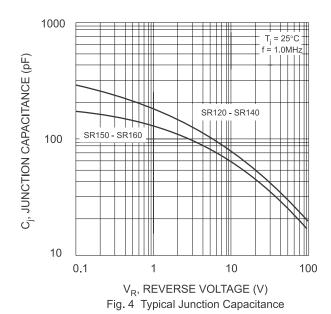


Fig. 5 Typical Reverse Characteristics

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			

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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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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.