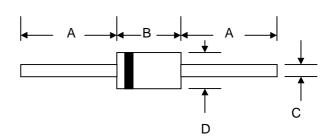


SR120 - SR160

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 @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	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)	IFSM			40			Α
Forward Voltage @I _F = 1	.0A VFM	0.50 0.70			70	V	
	I IDM			0.5 10			mA
Typical Junction Capacitance (Note 2)	Cj		110		8	0	pF
Typical Thermal Resistance Junction to Lead	RθJL	15				K/W	
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJA	50				K/W	
Operating and Storage Temperature Range	Тj, Tsтg	-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.

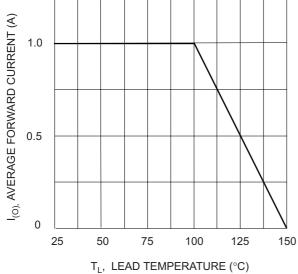
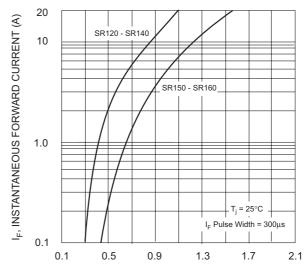
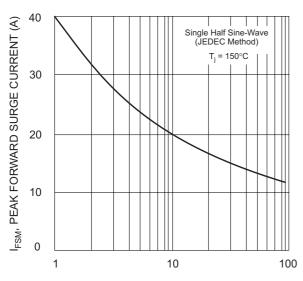


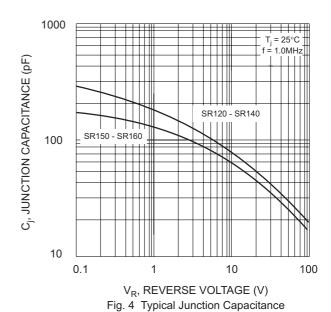
Fig. 1 Forward Current Derating Curve



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



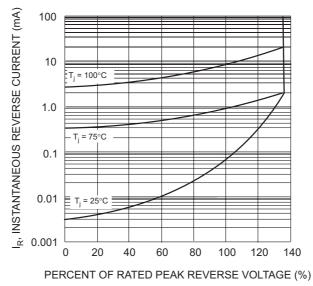


Fig. 5 Typical Reverse Characteristics

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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We power your everyday.

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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