

SR120 - SR1100

SCHOTTKY BARRIER RECTIFIER DIODES

VOLTAGE RANGE: 20 - 100V CURRENT: 1.0 A

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: DO-41, Molded Plastic

Terminals: Plated Leads Solderable per

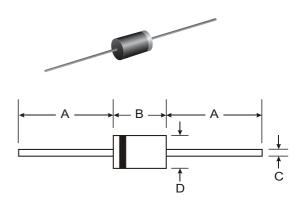
MIL-STD-202, Method 208Polarity: Cathode Band

• Weight: 0.34 grams (approx.)

Weight, 0.54 grains (approx.)
Mounting Position: Any

Marking: Type Number





DO-41								
Dim	Min	Max						
Α	25.40	_						
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	SR180	SR1100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T _L = 100°C (Note 1)	lo	1.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40					А		
Forward Voltage @I _F = 1.0A	VFM	0.50			0.70		0.85		V
	lгм	0.5 10						mA	
Typical Junction Capacitance (Note 2)	Cj	110				80			
Typical Thermal Resistance (Note 1)	RθJL RθJA	15 50						°C/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150							°C

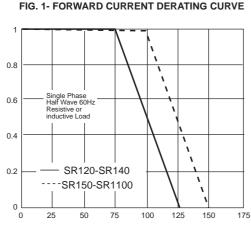
Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

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

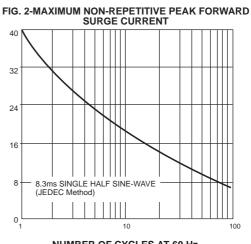


RATINGS AND CHARACTERISTIC CURVES SR120 THRU SR1100

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



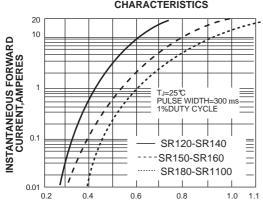




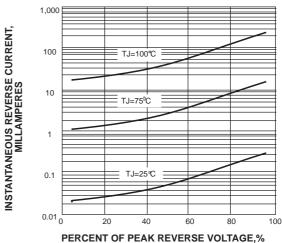
AMBIENT TEMPERATURE, °C

NUMBER OF CYCLES AT 60 Hz

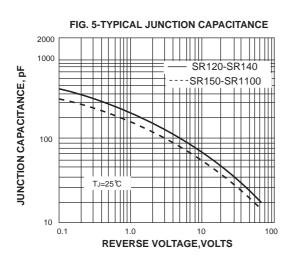




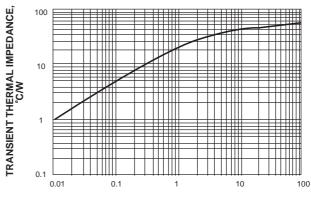




INSTANTANEOUS FORWARD VOLEAGE, VOLTS







t,PULSE DURATION,sec.