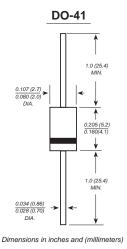


SR120 THRU SR1200

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- High forward surge current capability
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750.

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

•	•					•						
SYMBOLS	SR 120	SR 130	SR 140	SR 150	SR 160	SR 170	SR 180	SR 190	SR 1A0	SR 1150	SR 1200	UNITS
VRRM	20	30	40	50	60	70	80	90	100	150	200	VOLTS
VRMS	14	21	28	35	42	49	56	63	70	105	140	VOLTS
VDC	20	30	40	50	60	70	80	90	100	150	200	VOLTS
lan 10											A	
I(AV)	1.0										Amp	
IFSM	40.0									Amps		
VF	0.55 0.70			70	0.85				0.95	Volts		
	0.5 0.2								mA			
IR	10.0				5.0			2.0				
CJ	110				80						pF	
Reja	50.0									°C/W		
TJ,	-65 to +125				-65 to +150						°C	
Тѕтс	-65 to +150										°C	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ R Θ JA T J,	120 VRRM 20 VRMS 14 VDC 20 I(AV) IFSM VF IR CJ R@JA TJ,	120 130 130 VRRM 20 30 VRMS 14 21 VDC 20 30 VRMS VF 0.55 IR CJ 110 Rejja TJ, -65	120 130 140 V _{RRM} 20 30 40 V _{RMS} 14 21 28 V _{DC} 20 30 40 I _(AV) I _{FSM} V _F 0.55 I _R 10.6 C _J 110 R _{θJA} T _J -65 to +	120 130 140 150 V _{RRM} 20 30 40 50 V _{RMS} 14 21 28 35 V _{DC} 20 30 40 50 I _(AV) V _F 0.55 0. I _R 10.0 C _J 110 R _{θJA}	120 130 140 150 160 V _{RRM} 20 30 40 50 60 V _{RMS} 14 21 28 35 42 V _{DC} 20 30 40 50 60 I _(AV) V _F 0.55 0.70 I _R C _J 110 R _{ΘJA}	Name	Name	Name	Name	Var Var	Var Var

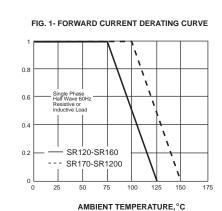
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

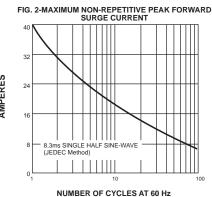
MDD ELECTRONIC

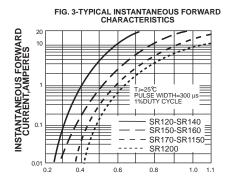
RATINGS AND CHARACTERISTIC CURVES SR120 THRU SR1200

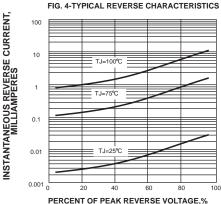




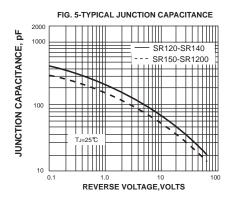








INSTANTANEOUS FORWARD VOLTAGE, VOLTS



TRANSIENT THERMAL IMPEDANCE, °C/W FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE 10 0.1 0.01 0.1 10 100

t,PULSE DURATION,sec.

MDD ELECTRONIC