

SR120 THRU SR1200

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 1.0 Ampere

FEATURES

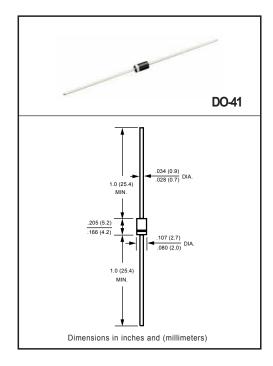
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I _O	1.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	40								Amps	
Typical Thermal Resistance (Note 1)	R _{θJA}	50									°C/W
Typical Thermal Resistance (Note 1)	R _{θJL}	15									
Typical Junction Capacitance (Note 3)	CJ	CJ 110								pF	
Operating Temperature Range	TJ	150							٥C		
Storage Temperature Range	T _{STG}	-55 to + 150								٥C	

$\textbf{ELECTRICAL CHARACTERISTICS} (@ \textit{TA=25} \ ^{\circ}\textit{C} \ unless \ otherwise \ noted)$

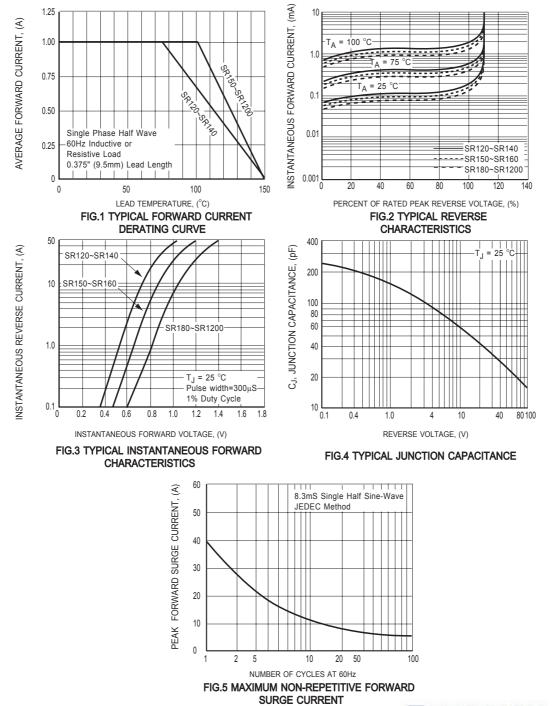
CHARACTERISTICS		SYMBOL	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V _F	.55			.70		.85				Volts
Maximum Average Reverse Current	@T _A = 25°C		0.2									
at Rated DC Blocking Voltage	@T _A = 100°C	'R					2					mΑ

NOTES: 1. Thermal Resistance: At 9.5mm lead lengths, PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-11

REV:B

RATING AND CHARACTERISTICS CURVES (SR120 THRU SR1200)





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