

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 10 Amperes

FEATURES

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

MECHANICAL DATA

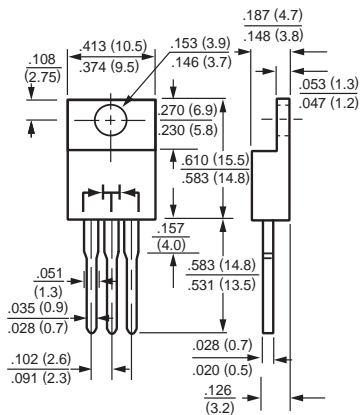
- * Case: To-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



TO-220



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

RATINGS	SYMBOL	SR1020C	SR1030C	SR1035C	SR1040C	SR1045C	SR1050C	SR1060C	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	35	40	45	50	60	Volts	
Maximum RMS Voltage	V _{RMS}	14	21	25	28	32	35	42	Volts	
Maximum DC Blocking Voltage	V _{DC}	20	30	35	40	45	50	60	Volts	
Maximum Average Forward Rectified Current at Derating Case Temperature	I _O	10								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150								Amps
Typical Thermal Resistance (Note 1)	R _{θJC}	3								°C/W
Typical Junction Capacitance (Note 3)	C _J	700				500				pF
Operating Temperature Range	T _J	-55 to + 150								°C
Storage Temperature Range	T _{STG}	-55 to + 150								°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SR1020C	SR1030C	SR1035C	SR1040C	SR1045C	SR1050C	SR1060C	UNITS	
Maximum Instantaneous Forward Voltage at 8.0A DC	V _F	.55				.75				Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	10				100				mAmps
		@ Tc = 25°C								
		@ Tc = 100°C								

- NOTES : 1. Thermal Resistance Junction to Case.
 2. Suffix "A" = Common Anode.
 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (SR1020C THRU SR1060C)

