SR1080 THRU SR10100



10 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

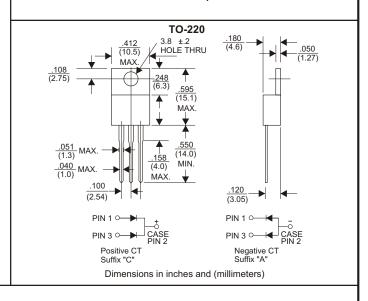
* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant

* Lead: Lead solderable per MIL-STD-202, method 208 guranteed

* Polarity: As Marked * Mounting position: Any * Weight: 2.24 grams

VOLTAGE RANGE 80 to 100 Volts CURRENT 10 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER		SR1080	SR10100	UNITS
Maximum Recurrent Peak Reverse Voltage		80	100	V
Maximum RMS Voltage		56	70	V
Maximum DC Blocking Voltage		80	100	V
Maximum Average Forward Rectified Curr	ent			
.375"(9.5mm) Lead Length at Tc=100°C		10		А
Peak Forward Surge Current, 8.3 ms sing	e half sine-wave			
superimposed on rated load (JEDEC method)		120		А
Maximum Instantaneous Forward Voltage at 5A		0.85		V
Maximum DC Reverse Current	Ta=25°C	0).1	mA
at Rated DC Blocking Voltage	Ta=125°C	1	15	mA
Typical Junction Capacitance (Note1)		300		pF
Typical Thermal Resistance R JA (Note 2)		3.0		°C/W
Operating Temperature Range T _J		-55—+150		°C
Storage Temperature Range Тятс		-55 		°C

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR1080 THRU SR10100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

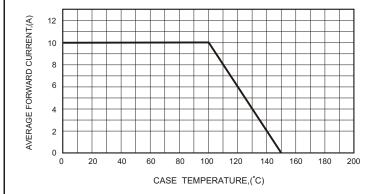


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

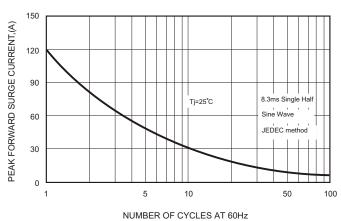


FIG.4-TYPICAL JUNCTION CAPACITANCE

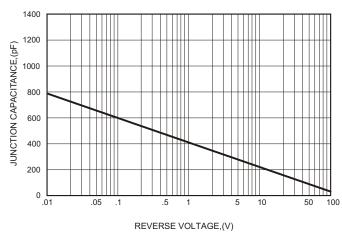


FIG.2-TYPICAL FORWARD

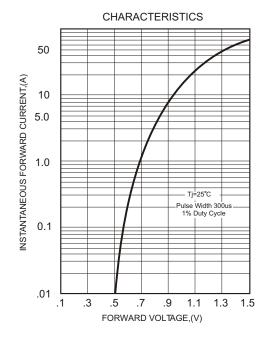


FIG.5 - TYPICAL REVERSE

