SR2080CT THRU SR20100CT



20 AMP SCHOTTKY BARRIER RECTIFIERS



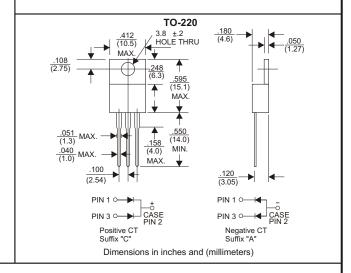
FEATURES

- * 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 20 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

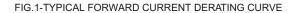
Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SR2080CT	SR20100CT	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 Current			
.375"(9.5mm) Lead Length at Tc=120°C	20		Α
Peak Forward Surge Current, 8.3 ms single half sine-wave			
superimposed on rated load (JEDEC method)	150		А
Maximum Instantaneous Forward Voltage at 10A	0.85		V
Maximum DC Reverse Current Ta=25°C	0.1		mA
at Rated DC Blocking Voltage Ta=125°C	100		mA
Typical Junction Capacitance (Note1)	300		pF
Typical Thermal Resistance R JA (Note 2)	2.0		°C/W
Operating Temperature Range T _J	-55 — +150		°C
Storage Temperature Range Tsтg	-55—+175		°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 (SR2080CT THRU SR20100CT)



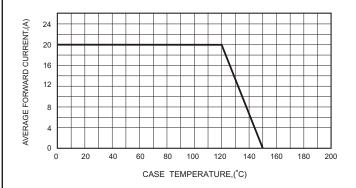


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

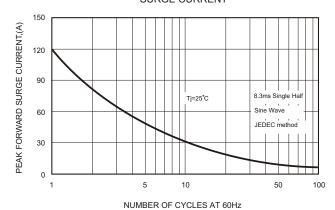


FIG.4-TYPICAL JUNCTION CAPACITANCE

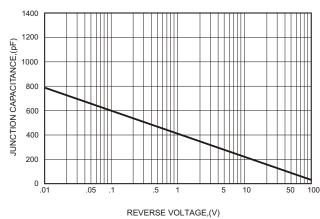


FIG.2-TYPICAL FORWARD

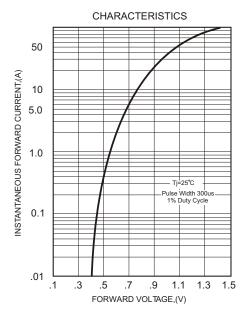


FIG.5 - TYPICAL REVERSE

