

# SR2080CT THRU SR20100CT

# GW

## 20 AMP SCHOTTKY BARRIER RECTIFIERS



### FEATURES

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

### MECHANICAL DATA

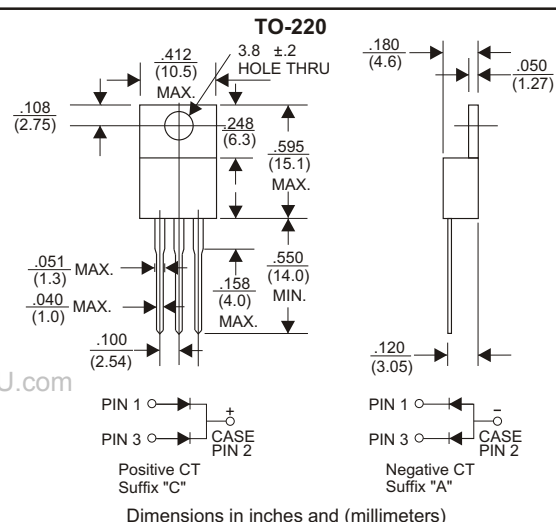
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any
- \* Weight: 2.24 grams

### VOLTAGE RANGE

80 to 100 Volts

### CURRENT

20 Ampere



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise 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 T <sub>c</sub> =120°C	20		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150		A
Maximum Instantaneous Forward Voltage at 10A	0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	0.1		mA
Typical Junction Capacitance (Note1)	300		pF
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	2.0		°C/W
Operating Temperature Range T <sub>J</sub>	-55 — +150		°C
Storage Temperature Range T <sub>STG</sub>	-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.1-TYPICAL FORWARD CURRENT DERATING CURVE

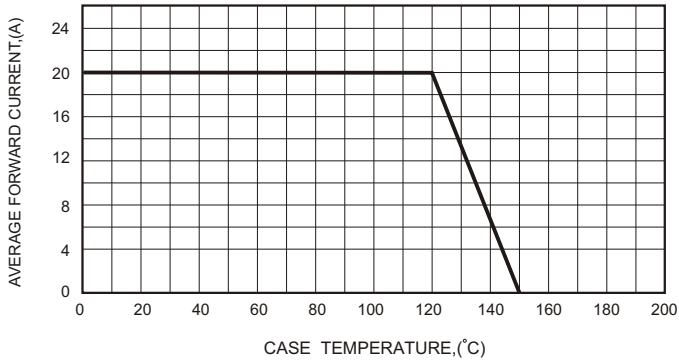


FIG.2-TYPICAL FORWARD CHARACTERISTICS

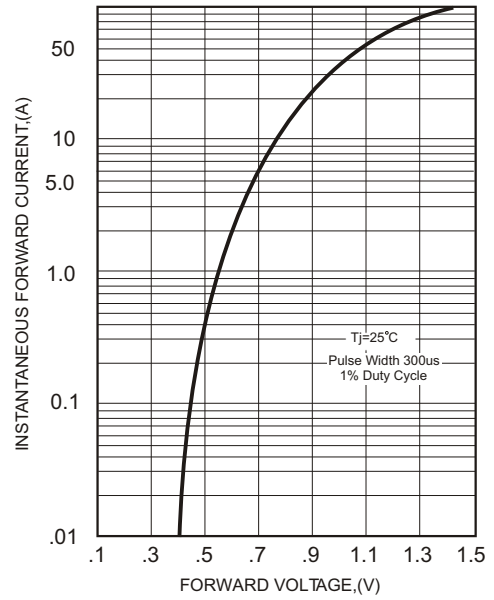


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

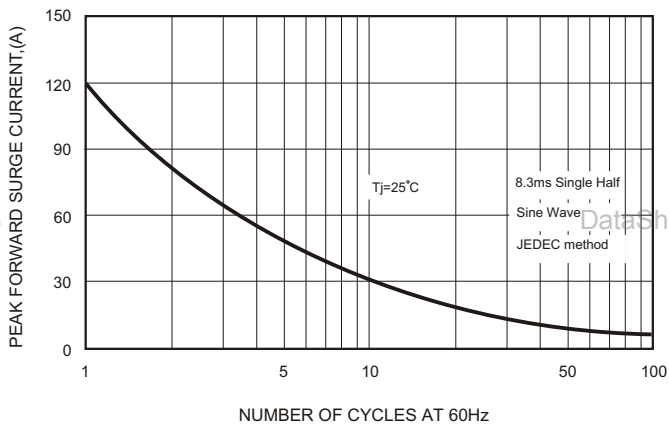


FIG.4-TYPICAL JUNCTION CAPACITANCE

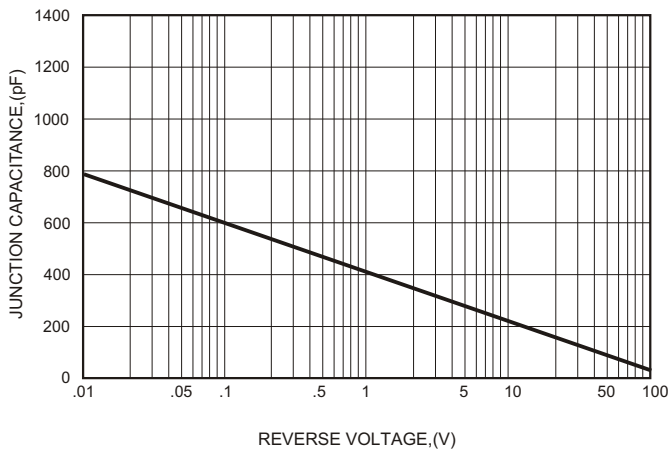


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

