

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

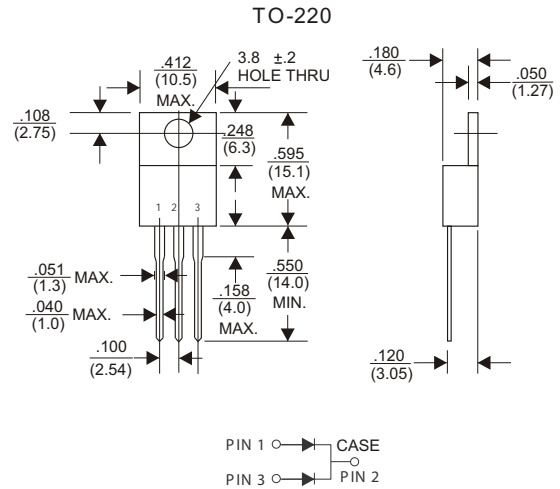


FEATURES

- * 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



Dimensions in millimeters

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	SR2020	SR2030	SR2040	SR2050	SR2060	SR2080	SR20100	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Working Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current See Fig. 1	20							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150				125			A
Maximum Instantaneous Forward Voltage at 10.0A	0.54		0.64		0.79			V
Maximum DC Reverse Current Ta=25°C	0.5		0.3		0.2			mA
at Rated DC Blocking Voltage Ta=100°C	45		22.5		7.5			mA
Typical Junction Capacitance (Note 1)	700		460		280			pF
Typical Thermal Resistance RθJC (Note 2)	3.0							°C/W
Operating Temperature Range T _J	-50 ~ +150							°C
Storage Temperature Range T _{STG}	-65 ~ +175							°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SR2020 THRU SR20100)

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

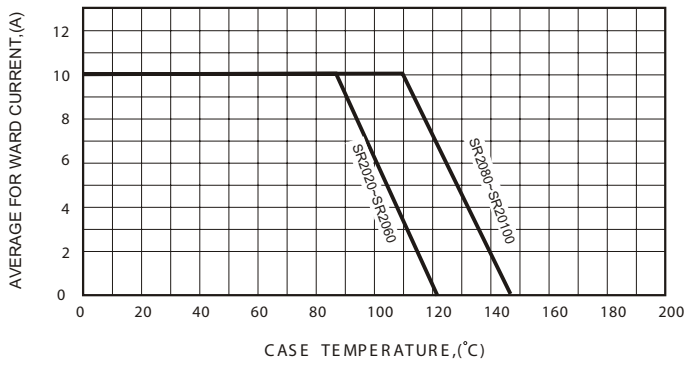


FIG.2-TYPICAL FORWARD CHARACTERISTICS

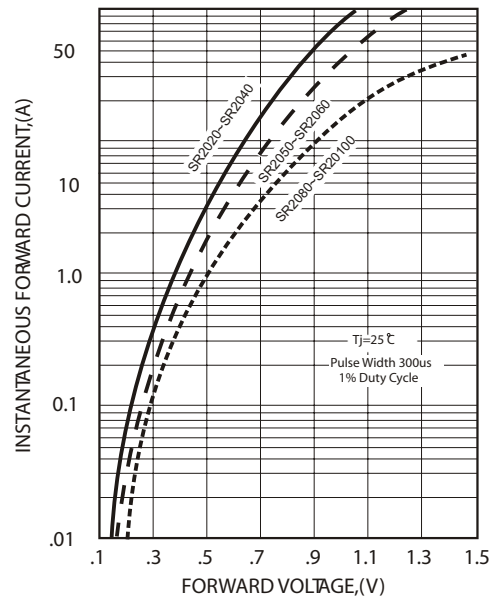


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

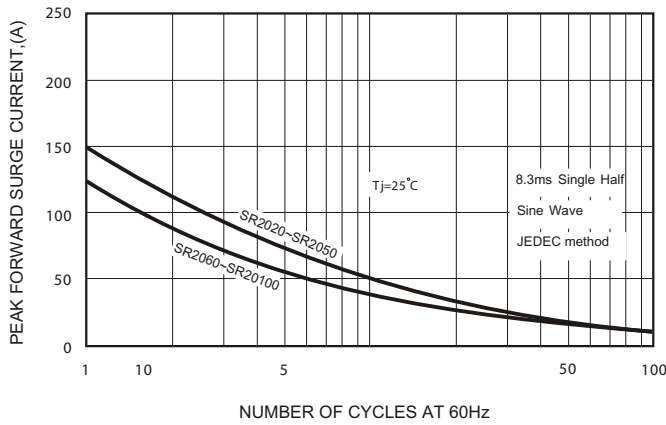


FIG. 5 -TYPICAL REVERSE CHARACTERISTICS

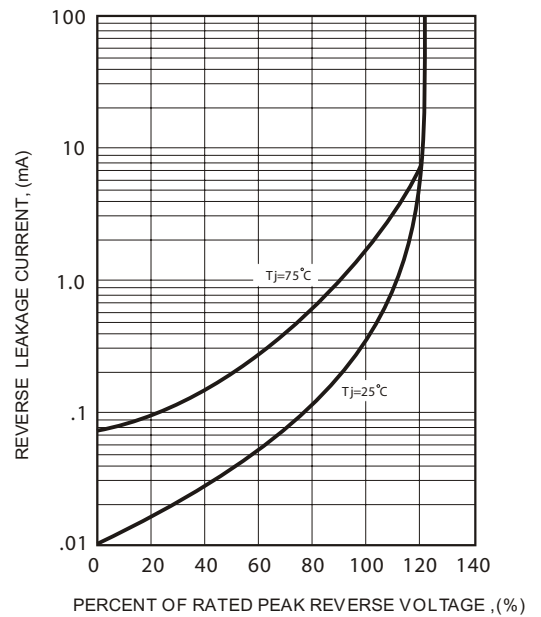


FIG. 4-TYPICAL JUNCTION CAPACITANCE

