

RoHS Compliant Product

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



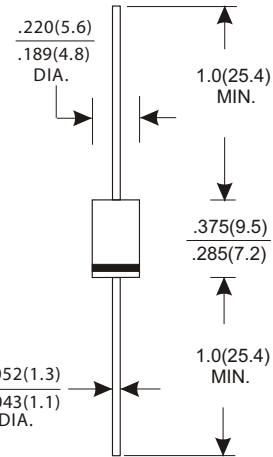
FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94 V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams

DO-27



Dimensions in inches and (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	SR520	SR530	SR540	SR560	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	45	60	V
Working Peak Reverse Voltage	20	30	45	60	V
Maximum DC Blocking Voltage	20	30	45	60	V
Maximum Average Forward Rectified Current See Fig.1	5.0				A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	100				A
Maximum Instantaneous Forward Voltage at 5.0A	0.52		0.65		V
Maximum DC Reverse Current Ta=25°C	0.5				mA
at Rated DC Blocking Voltage Ta=100°C (Note3)	20				mA
Typical Junction Capacitance (Note1)	380				pF
Typical Thermal Resistance RθJL (Note2)	15				°C/W
Operating Temperature Range Tj	-50 ~ +150				°C
Storage Temperature Range Tstg	-65 ~ +175				°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0VDC.
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300us pulse width, 1% duty cycle.

RATING AND CHARACTERISTIC CURVES (SR520 THRU SR560)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

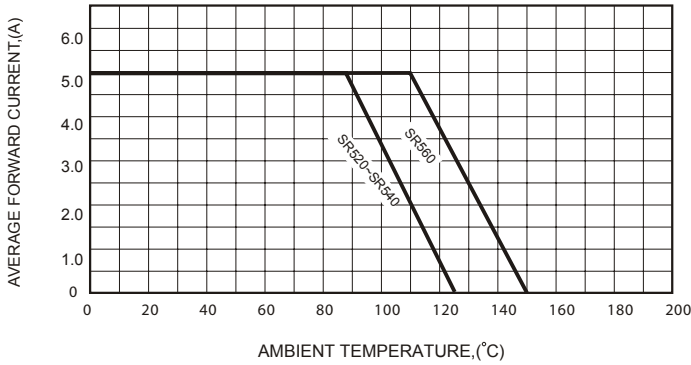


FIG.2-TYPICAL FORWARD CHARACTERISTICS

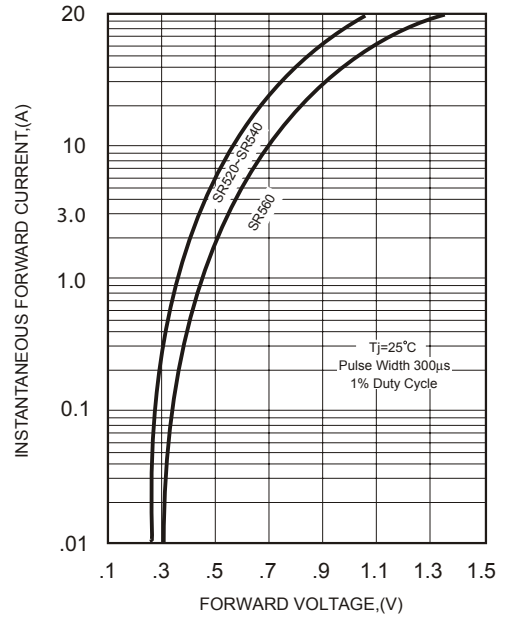


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

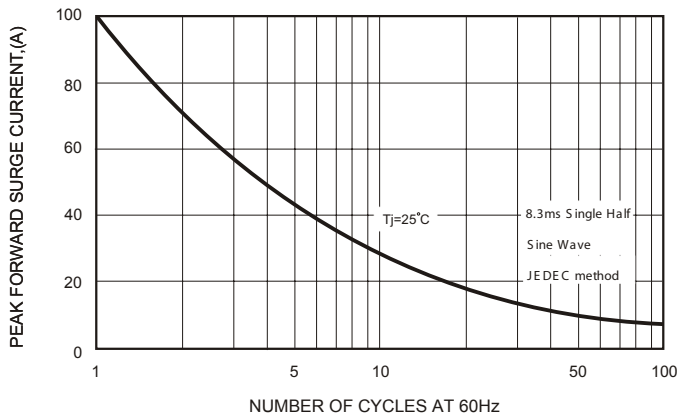


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

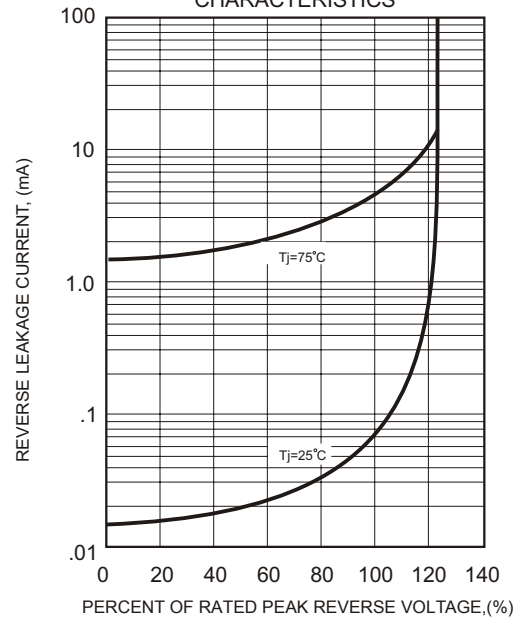


FIG.4-TYPICAL JUNCTION CAPACITANCE

