SR4060LCT

40.0 AMP SCHOTTKY BARRIER RECTIFIERS

FEATURES

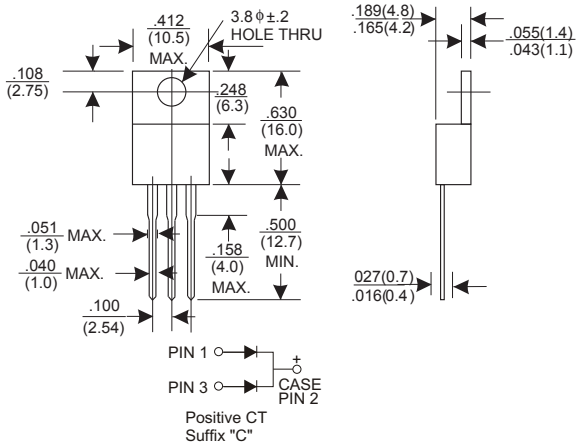
* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability
* Epitaxial construction

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: 1.81 grams
* Lead Free Finish/RoHS Compliant

VOLTAGE RANGE
60 Volts
CURRENT
40.0 Ampere

TO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SR4060LCT		UNITS
Maximum Recurrent Peak Reverse Voltage	60		V
Maximum RMS Voltage	42		V
Maximum DC Blocking Voltage	60		V
Maximum Average Forward Rectified Current See Fig. 1	40		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	300		A
Maximum Instantaneous Forward Voltage per Leg at 20.0A	0.55		V
Maximum DC Reverse Current Ta=25˚C	500		uA
at Rated DC Blocking Voltage Ta=100˚C	100		mA
Typical Thermal Resistance R JC (Note 1)	1.4		˚C/W
Operating Temperature Range Tj	-65 — +125	-65 — +150	˚C
Storage Temperature Range TSTG	-65 — +150		˚C

NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SR4060LCT)

FIG.1-FORWARD CURRENT DERATING CURVE

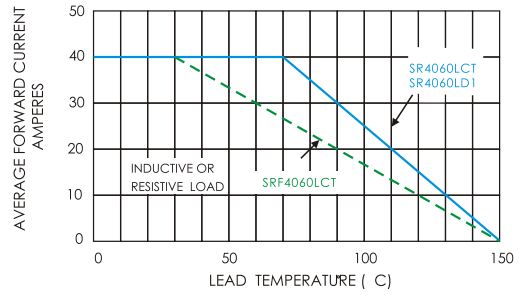


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

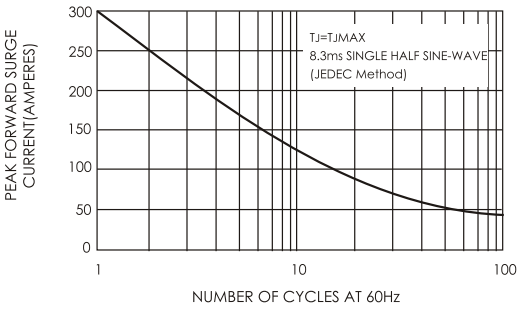


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

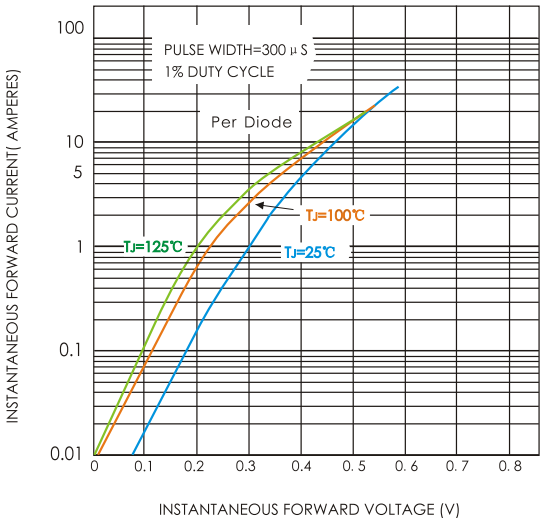


FIG.4-TYPICAL REVERSE CHARACTERISTICS

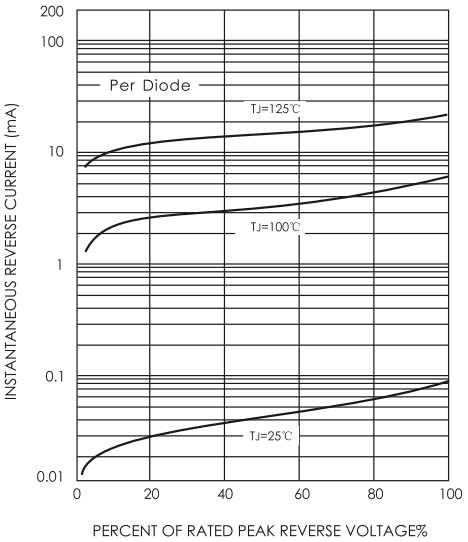
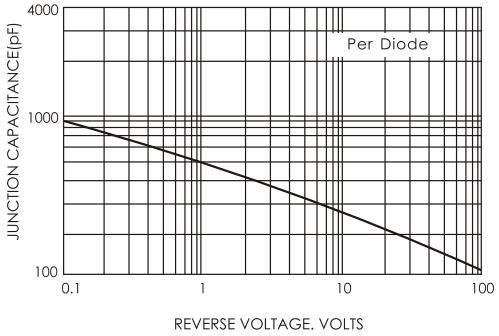


FIG.5-TYPICAL JUNCTION CAPACITANCE



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