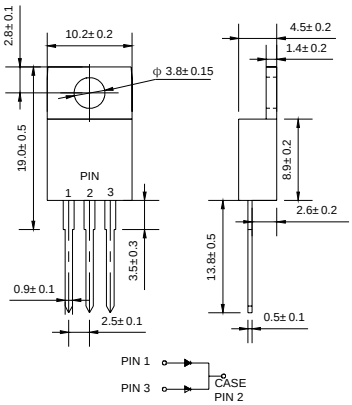
SR1520CT-SR1560CT

Dual Schottky Rectifiers

REVERSE VOLTAGE: 20 - 60 V

FORWARD CURRENT: 15 A

TO-220AB



Dimensions in millimeters

Features

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- Low forward voltage drop,low switching losses
- High surge capability
- The plastic material carries U/L recognition 94V-0

Mechanical Data

- Case:JEDEC TO--220AB,molded plastic
- Polarity: As marked
- Weight: 0.08 ounce, 2.24 grams
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		SR 1520CT	SR 1530CT	SR 1540CT	SR 1550CT	SR 1560CT	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	50	60	V
Working peak reverse voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	V
Maximum average forw ard rectified current @ T_A=100℃	$I_{F(AV)}$	15.0					A
Peak forw ard surge current 8.3 ms single half sine-w ave superimposed on rated load (JEDEC Method) @T_A =125℃	I_{FSM}	200.0					A
Maximum instantaneous forw ard voltage per leg @ 7.5A (Note1)	V_F	0.65			0.75		V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	1.0 50.0					mA
Operating junction temperature range	T_J	-55 --- +150					℃
Storage temperature range	T_{STG}	-55 --- +150					℃

Note: 1. Pulse test:300us pulse width,1% duty cycle.

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Ratings AND Charactieristic Curves

FIG.1 --FORWARD CURRENT DERATING CURVE

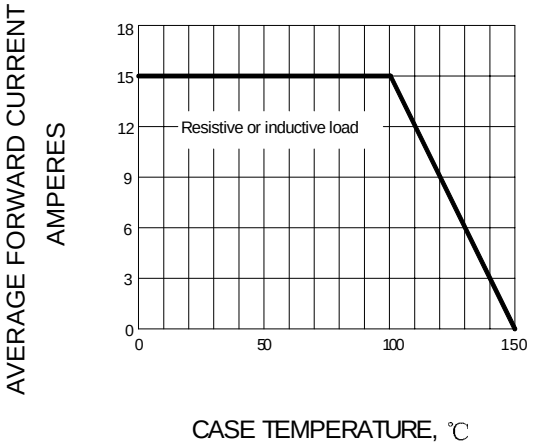


FIG.2 -- TYPICAL REVERSE CHARACTERISTICS PER LEG

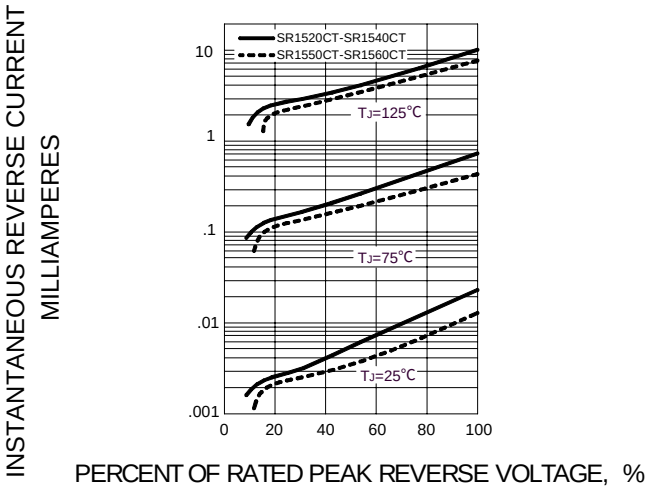


FIG.3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

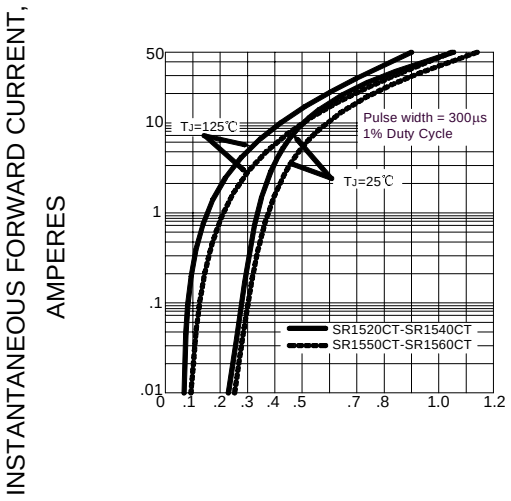


FIG.4 -- PEAK FORWARD SURGE CURRENT

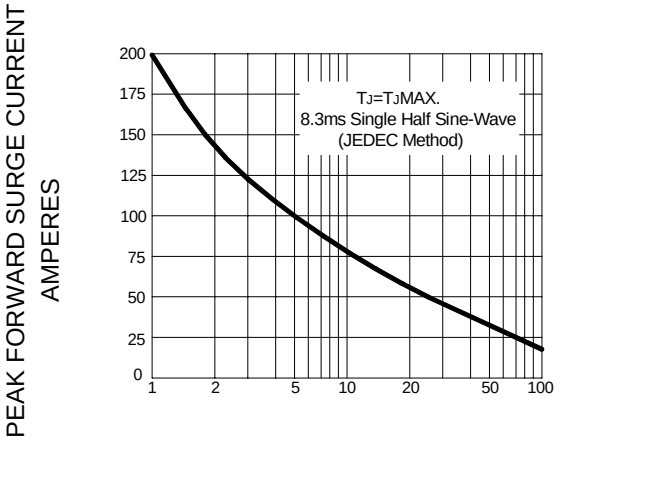


FIG.5 -- TYPICAL JUNCTION CAPACITANCE

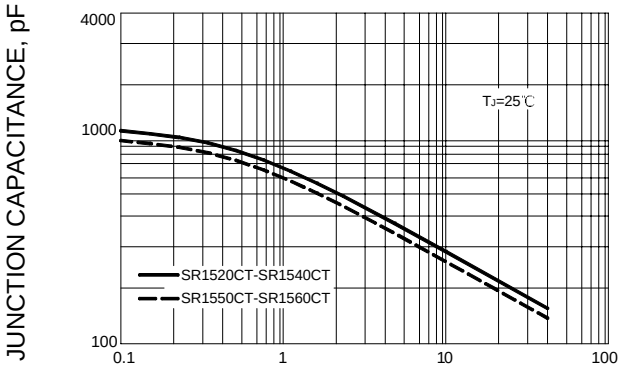
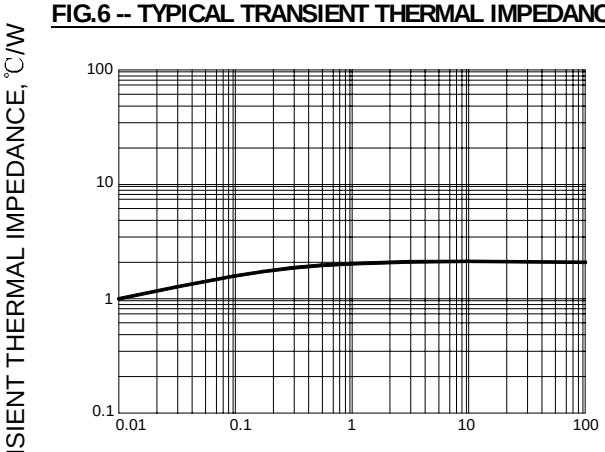


FIG.6 -- TYPICAL TRANSIENT THERMAL IMPEDANCE



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