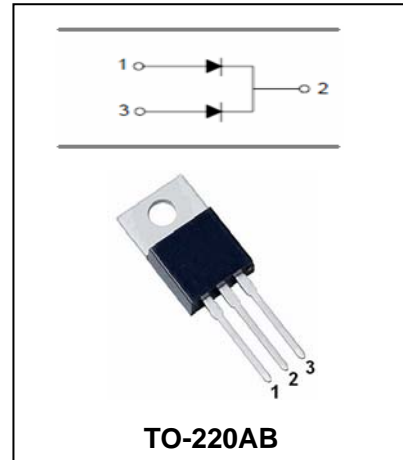


Dual Schottky Rectifiers

SR1020CT-SR10100CT

FEATURES

- Metal-Semiconductor Junction With Guard Ring.
- Epitaxial Construction.
- Low Forward Voltage Drop, Low Switching Losses.
- High Surge Capacity.
- For Use In Low Voltage, High Frequency Inverters Free Wheeling, and Polarity Protection Applications.
- The Plastic Material Carries U/L Recognition 94V-0.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	SR 1020 CT	SR 1030 CT	SR 1040 CT	SR 1050 CT	SR 1060 CT	SR 1080 CT	SR 10100 CT	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
V_{RMS}	RMS Voltage	14	21	28	35	42	56	70	V
V_{DC}	DC Blocking Voltage	20	30	40	50	60	80	100	V
$I_{F(AV)}$	Average Forward Rectified Current	10							A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	175					150		A
T_j T_{stg}	Operating Junction and Storage Temperature Range	-55 to +150							°C

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	SR1020CT-SR1040CT	SR1050CT-SR1060CT	SR1080CT-SR10100CT	UNIT
			MAX			
Forward Voltage	V_F (Note1)	$I_F=5A$	0.65	0.75	0.85	V
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25^\circ\text{C}$ $V_R=V_{RRM}, T_A=100^\circ\text{C}$	0.5 15	0.5 25	0.1 50 @ $T_A=125^\circ\text{C}$	mA

Note:1. Pulse tere:300µs pulse width,1% duty cycle.



Dual Schottky Rectifiers

SR1020CT-SR10100CT

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

FIG.1 - FORWARD CURRENT DERATING CURVE

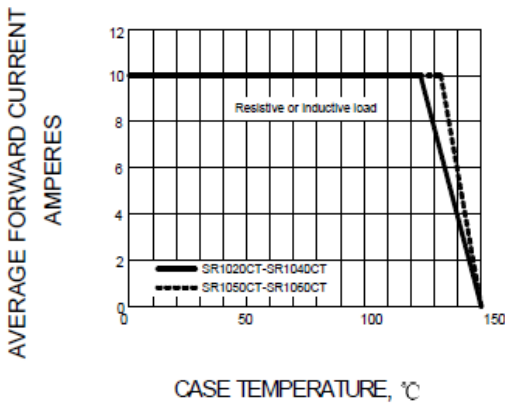


FIG.2 - TYPICAL REVERSE CHARACTERISTICS PER LEG

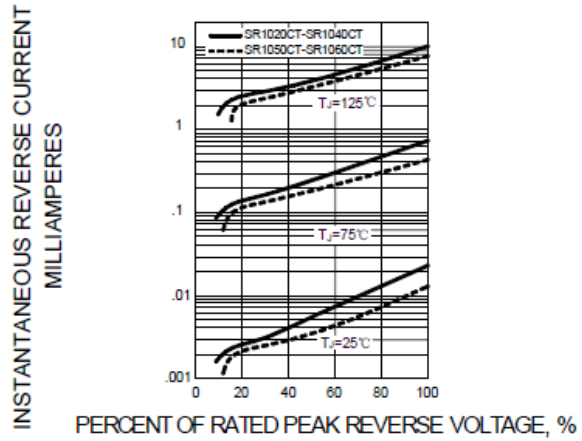


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

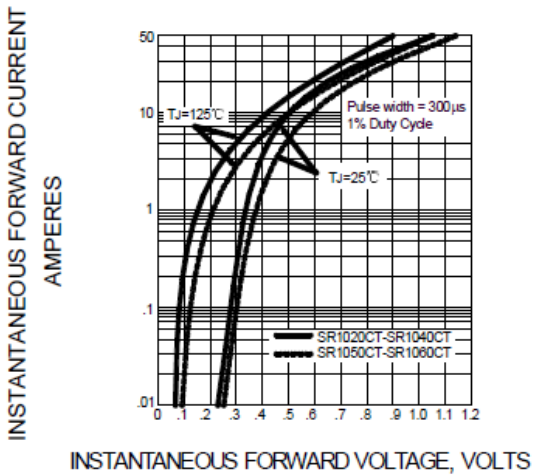


FIG.4 - PEAK FORWARD SURGE CURRENT

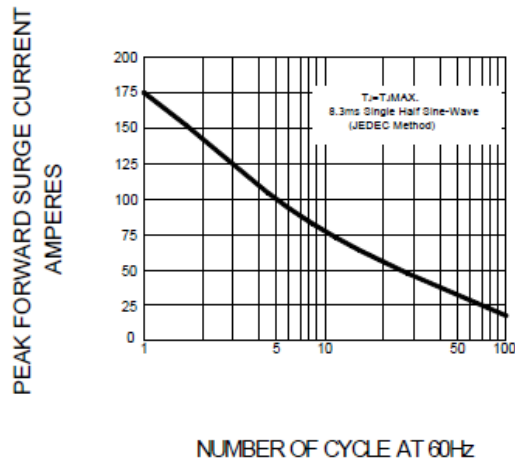


FIG.5 - TYPICAL JUNCTION CAPACITANCE

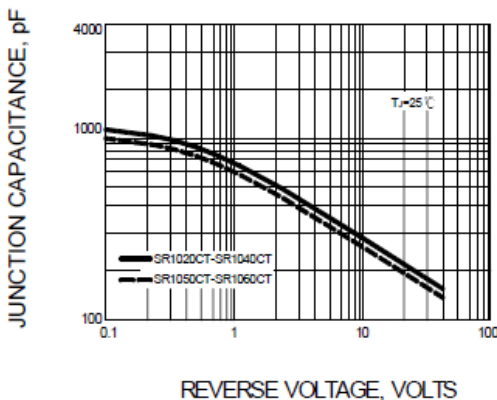
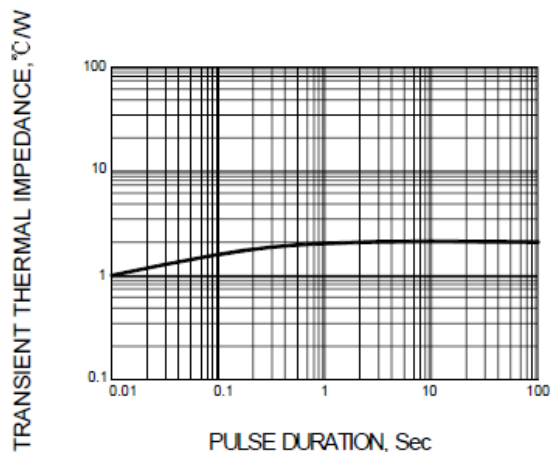


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE





Dual Schottky Rectifiers

SR1020CT-SR10100CT

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AB

