

SR2090CT THUR SR20100CT

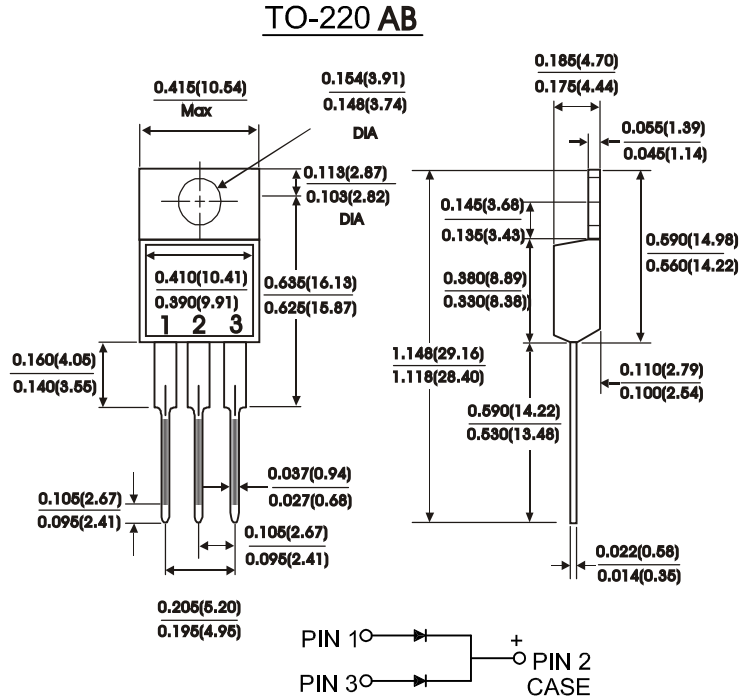
SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case : JEDEC TO-220AB molded plastic
 Terminals : Leads solderable per MIL-STD-750 Method 2026
 Polarity : As marked
 Mounting Position : Any
 Mounting Torque 5 in - lbs. max
 Weight : 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase half wave, 60 Hz resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	SR2090CT	SR20100CT	Units
Maximum recurrent peak reverse voltage	V_{RRM}	90	100	Volts
Maximum RMS voltage	V_{RMS}	63	70	Volts
Maximum DC blocking voltage	V_{DC}	90	100	Volts
Maximum average forward rectified current at $T_C=125^\circ C$	$I_{(AV)}$	20		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I_{FSM}	150		Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2)	V_F	$I_F=10A$ 0.80 $I_F=20A$ 0.95		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Per leg)(NOTE 2)	I_R	$T_C=25^\circ C$ 0.5 $T_C=125^\circ C$ 50		mA
Typical thermal resistance(Per leg)(NOTE 1)	R_{th-JC}	2.0		°C/W
Operating temperature range	T_J	-65to +150		°C
Storage temperature range	T_{Stg}	-65to +175		°C

NOTES:
 (1) Thermal resistance from junction to case
 (2) Pulse test : 300 us pulse width, 1% duty cycle
 (3) Marking : $\frac{SR2090CT}{Symbol} = \frac{SR2090}{Marking}$ (Without Marking "CT")

RATINGS AND CHARACTERISTIC CURVES SR2090CT THRU SR2100CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

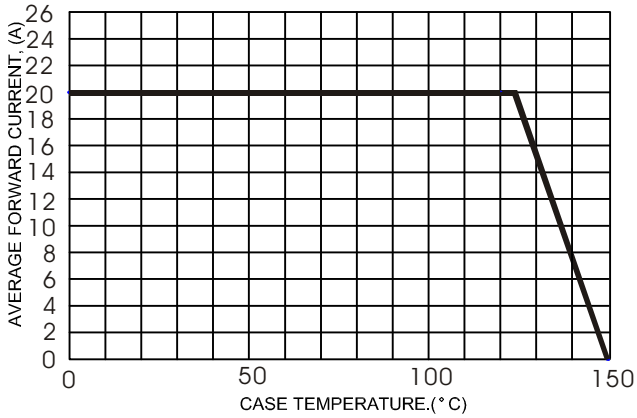


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

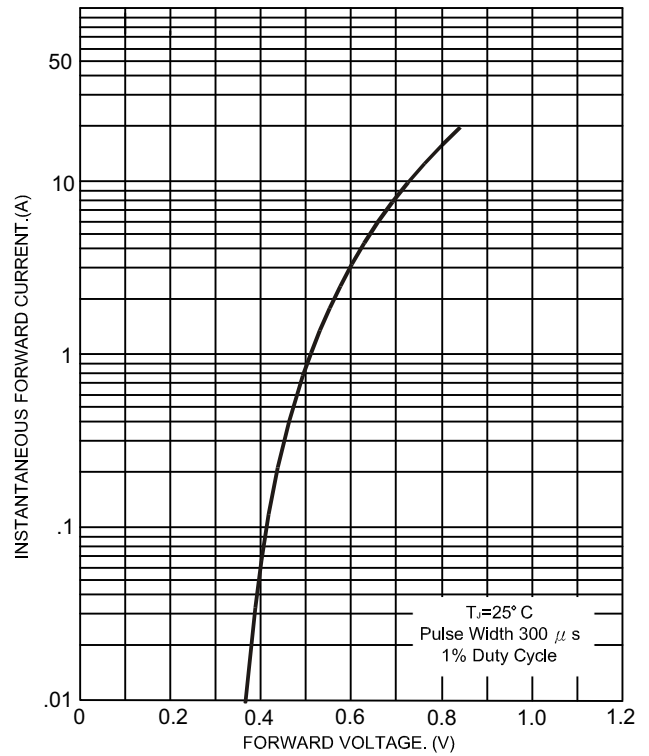


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

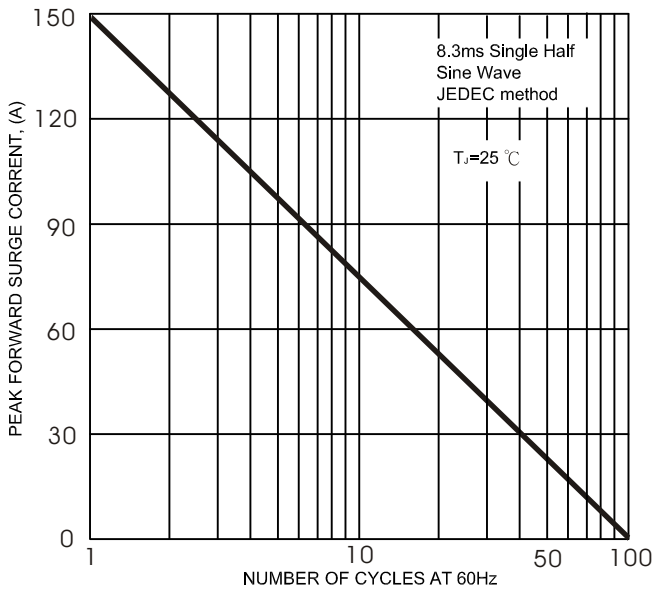


FIG.4- TYPICAL REVERSE CHARACTERISTICS

