SCHOTTKY BARRIER RECTIFIERS

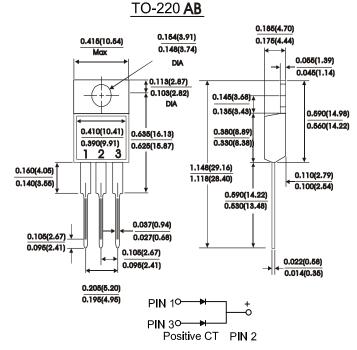
FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction Majority carrier conduction
- Low powerloss, 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 Teminals: Leads solderable per MIL-STD-750

Method 2026 Polarity: As marked **Mounting Postition: Any** Mounting Torque 5 In - Ibs.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.

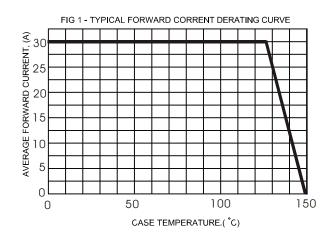
For capacitive load. derate current by 20%.

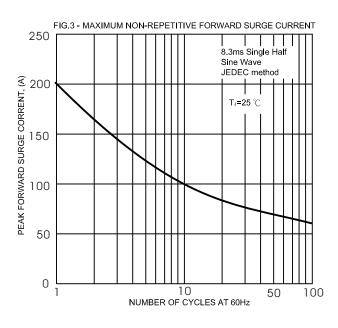
Characteristic	Symbol	SR 3020CT	SR 3030CT	SR 3035CT	SR 3040CT	SR 3045CT	SR 3050CT	SR 3060CT	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V _{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at See fig. 1	Io	30							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	200						Amps	
Maximum instantaneous forward voltage (Per leg)(NOTE 2) IF=15A	V _F	0.65 0.80						Volts	
$\begin{array}{ll} \mbox{Maximum instantaneous reverse} \\ \mbox{current at rated DC blocking} \\ \mbox{voltage (Per leg)(NOTE 2)} \end{array} \qquad \begin{array}{ll} \mbox{Tc=25 °C} \\ \mbox{Tc=125 °C} \end{array}$	lβ	1.0 60						mA	
Typical thermal resistance (Per leg)(NOTE 1)	R _{th} -JC	1.5							°C/W
Operating temperature range	TJ	-65to+150							$^{\circ}\!\mathbb{C}$
Storage temperature range	T _{Stg}	-65to+175							$^{\circ}\!\mathbb{C}$

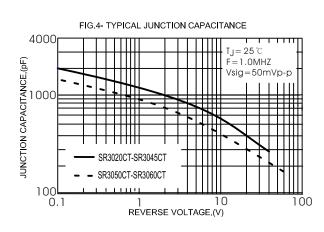
(1)Thermal resistance from junction to case (2) Pulse test: 300 us pulse width, 1% duty cycle

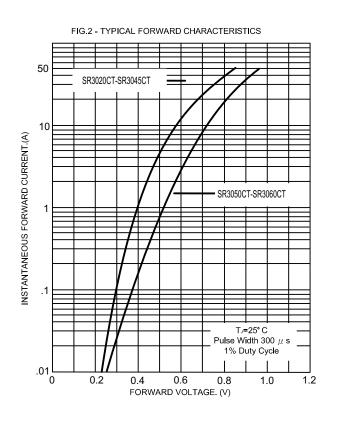
(3)Marking : <u>SR3020CT</u> = <u>SR3020</u> (Without Marking "CT")

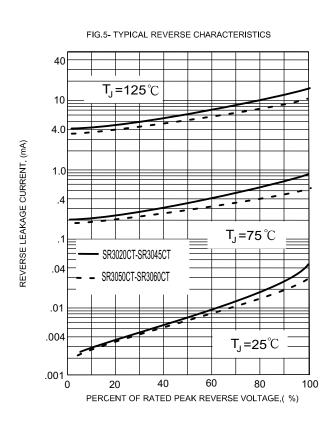
RATINGS AND CHARACTERISTIC CURVES











Feb. 2020

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