



SCHOTTKY BARRIER RECTIFIERS

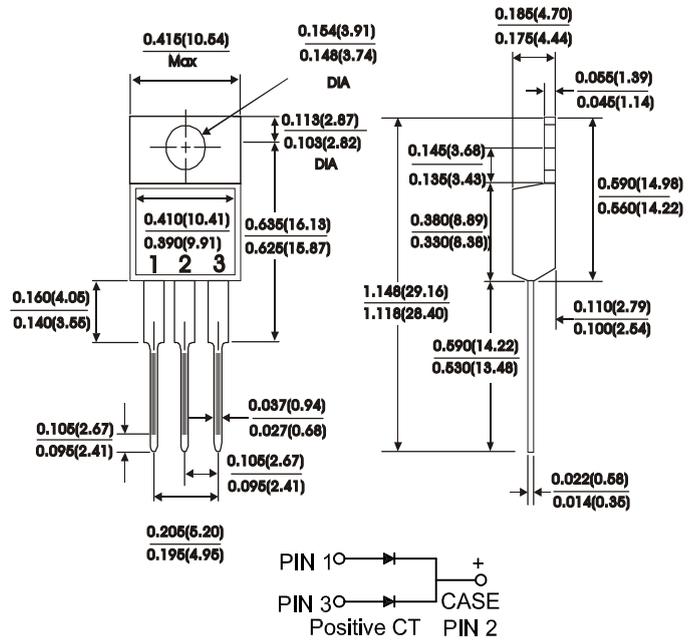
TO-220 AB

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- 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%.

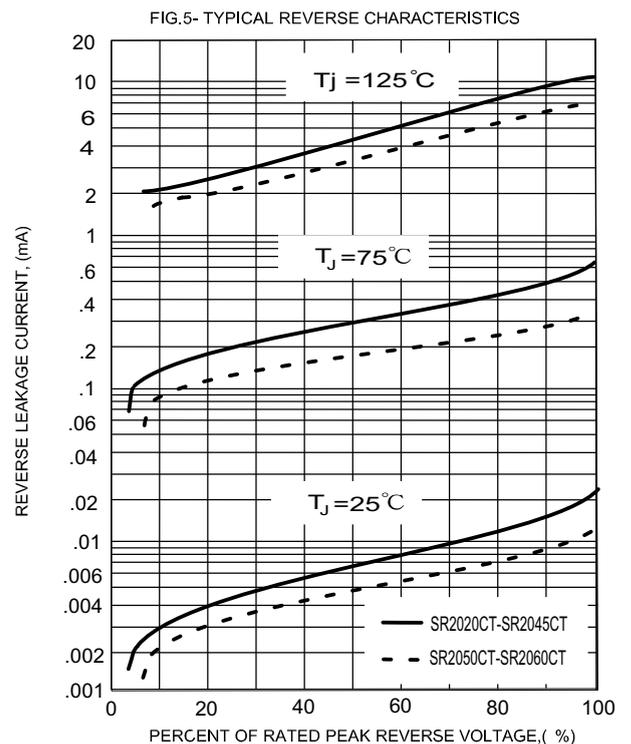
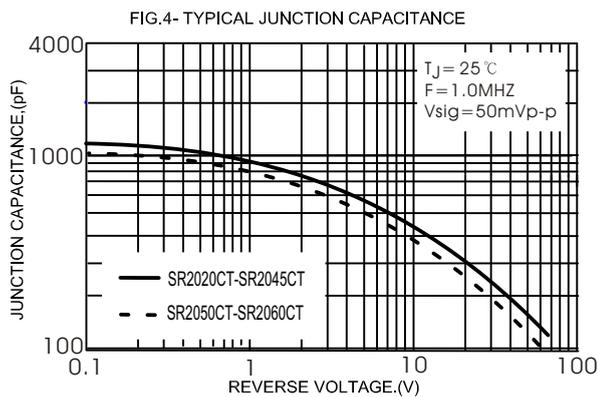
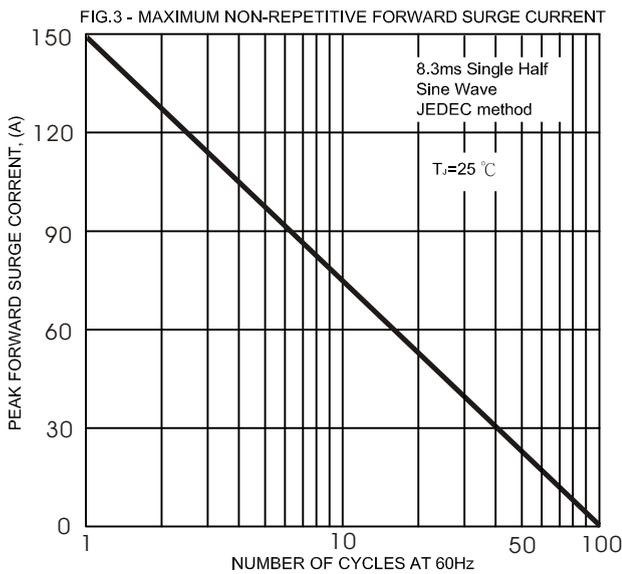
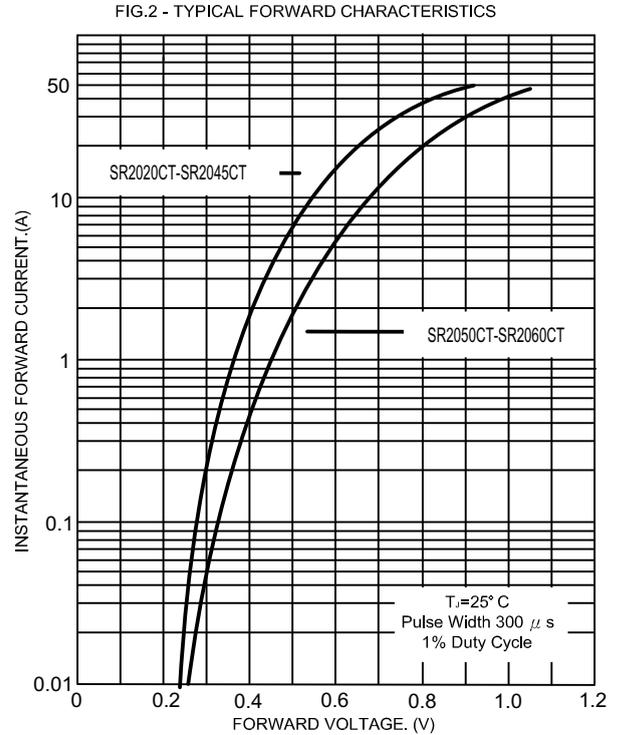
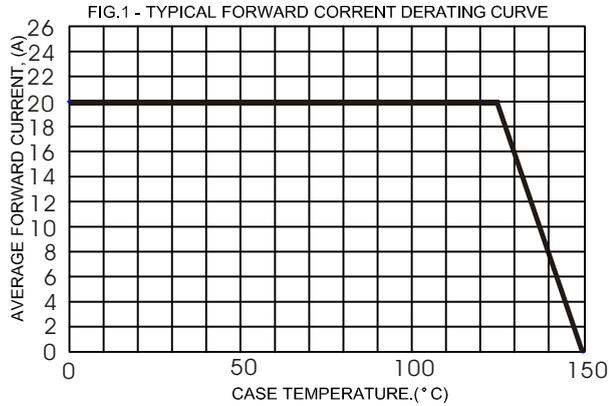
Characteristic	Symbol	SR 2020CT	SR 2030CT	SR 2035CT	SR 2040CT	SR 2045CT	SR 2050CT	SR 2060CT	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	$V_{RMS}$	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at $T_C=125^\circ C$	$I_O$	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) $I_F=10A$	$V_F$	0.63					0.71		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Per leg)(NOTE 2) $T_C=25^\circ C$ $T_C=125^\circ C$	$I_R$					0.5	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 :  $\frac{SR2020CT}{Symbol \quad Marking} = SR2020$  (Without Marking "CT")



RATINGS AND CHARACTERISTIC CURVES





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