



SCHOTTKY BARRIER RECTIFIERS

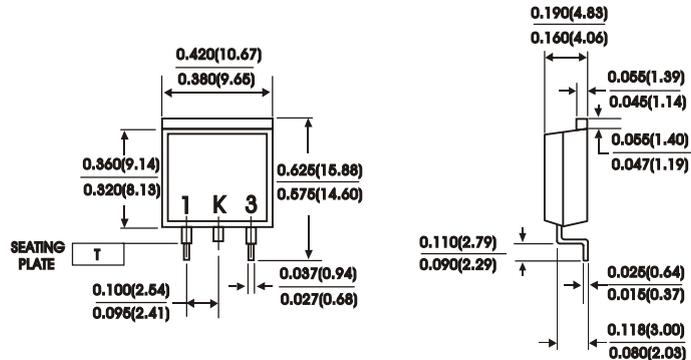
TO-263AB

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

MECHANICAL DATA

- Case : JEDEC TO-263AB 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	SRB 2020CT	SRB 2030CT	SRB 2035CT	SRB 2040CT	SRB 2045CT	SRB 2050CT	SRB 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 $T_C=125^\circ C$	$I_{(AV)}$	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) $I_F=10A$	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		$^\circ C/W$		
Operating temperature range	T_J					-65to +150		$^\circ C$		
Storage temperature range	T_{Stg}					-65to +175		$^\circ C$		

NOTES:

- (1) Thermal resistance from junction to case
- (2) Pulse test : 300 us pulse width, 1% duty cycle
- (3) Marking : $\frac{SR2020CT}{Symbol} = \frac{SR2020}{Marking}$ (Without Marking "CT")



RATINGS AND CHARACTERISTIC CURVES

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

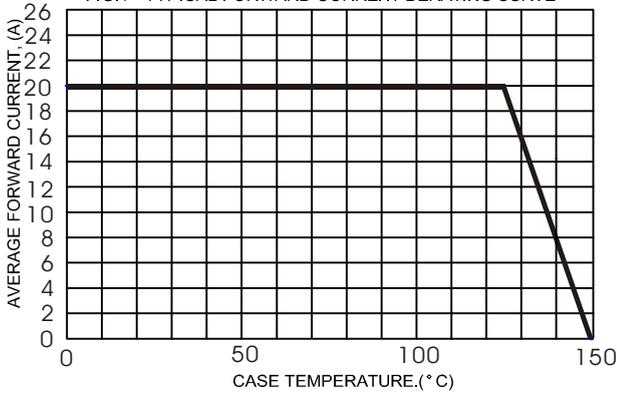


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

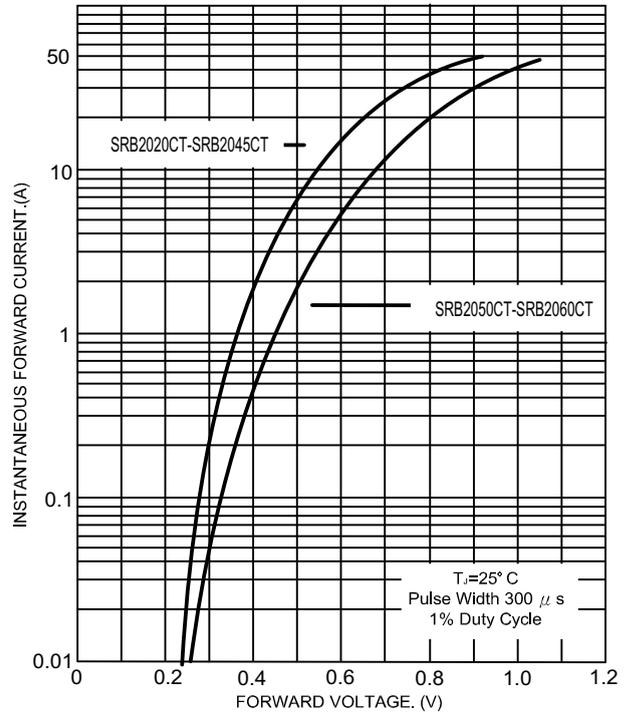


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

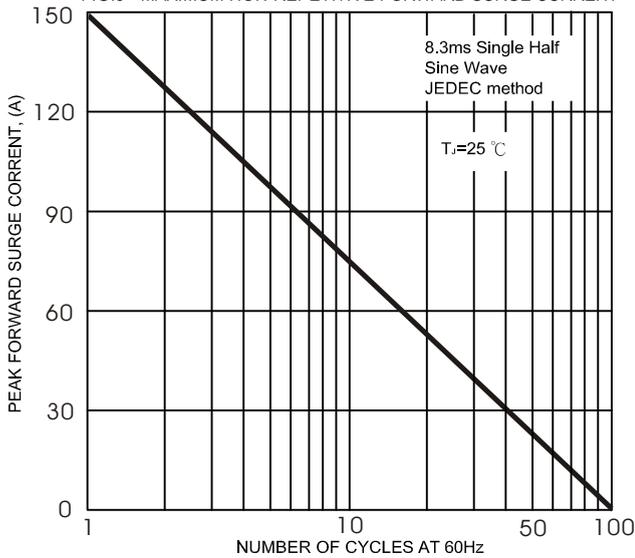


FIG.5- TYPICAL REVERSE CHARACTERISTICS

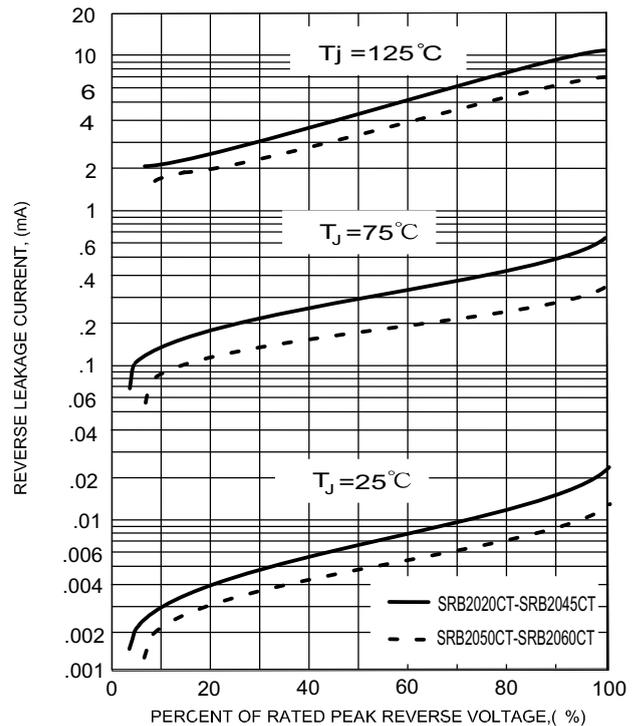
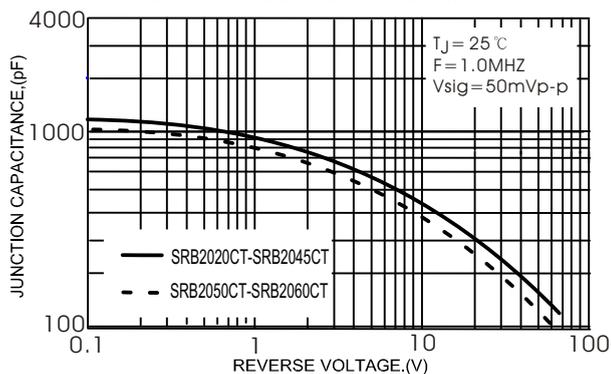


FIG.4- TYPICAL JUNCTION CAPACITANCE





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