

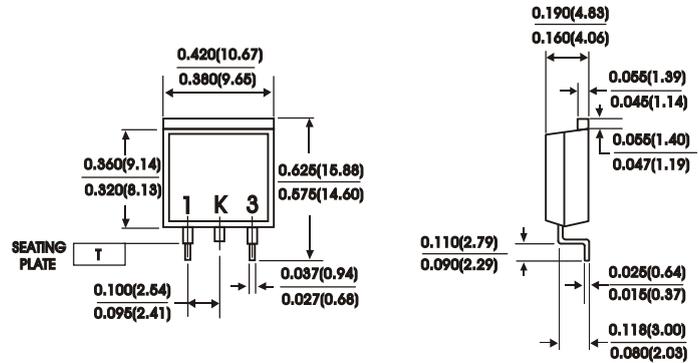


SCHOTTKY BARRIER RECTIFIERS

TO-263AB

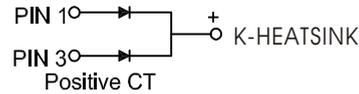
FEATURES:

- 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	SRB2090CT	SRB20100CT	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	IF=10A 0.80 IF=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 : $SR2090CT = SR2090$ (Without Marking "CT")
 Symbol Marking



RATINGS AND CHARACTERISTIC CURVES

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

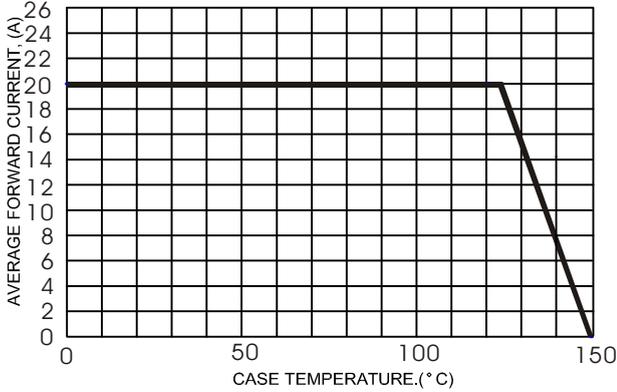


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

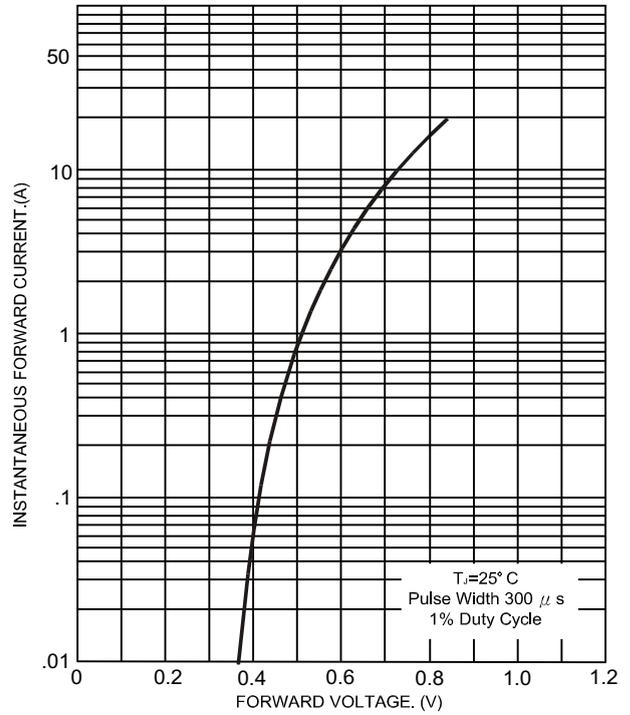


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

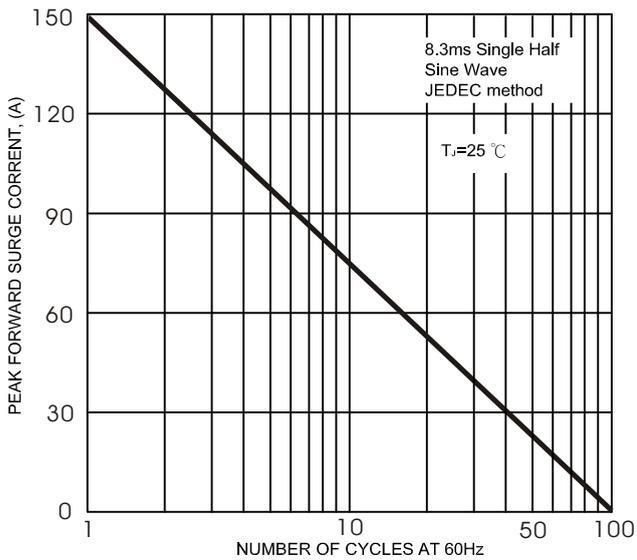
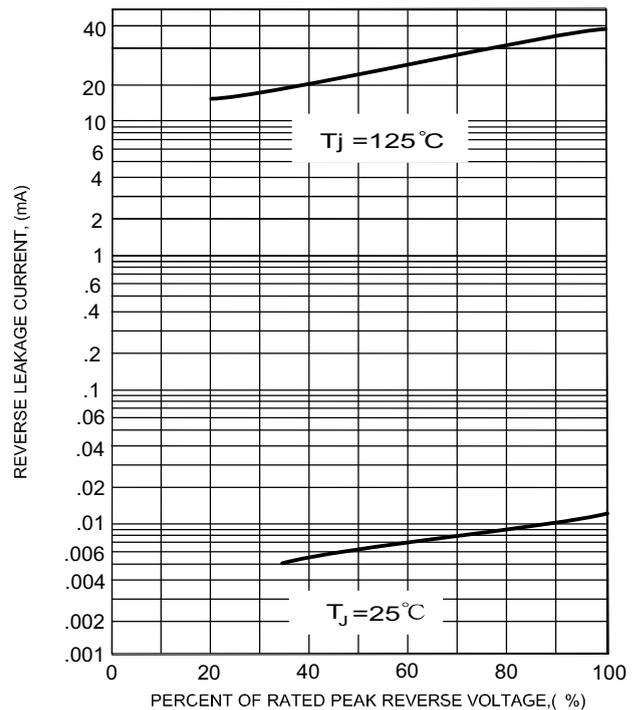


FIG.4- TYPICAL REVERSE CHARACTERISTICS





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