

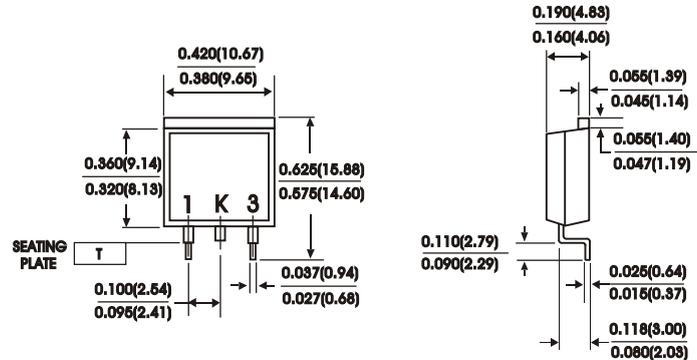


SCHOTTKY BARRIER RECTIFIERS

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

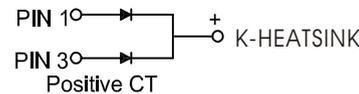
Method 2026

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 2520CT	SRB 2530CT	SRB 2535CT	SRB 2540CT	SRB 2545CT	SRB 2550CT	SRB 2560CT	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 $T_c = 125^\circ\text{C}$	$I_{(AV)}$	25							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) $I_F = 12.5\text{A}$	V_F	0.63					0.75		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2) $T_c = 25^\circ\text{C}$ $T_c = 125^\circ\text{C}$	I_R	0.5					1.0		mA
Typical thermal resistance (NOTE 1)(Per leg)	R_{th-JC}	1.5							$^\circ\text{C}/\text{W}$
Operating and temperature range	T_J	-65to+150							$^\circ\text{C}$
Storage temperature range	T_{Stg}	-65to+175							$^\circ\text{C}$

NOTES:

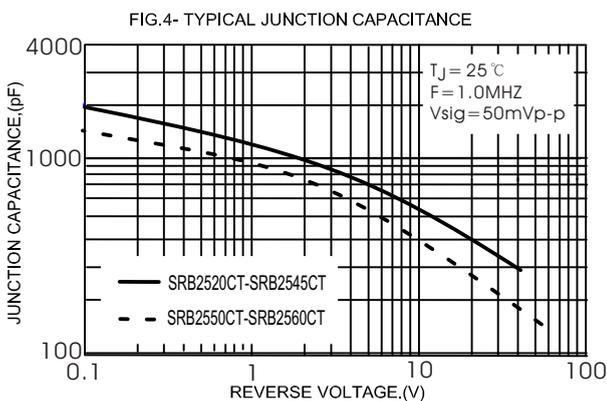
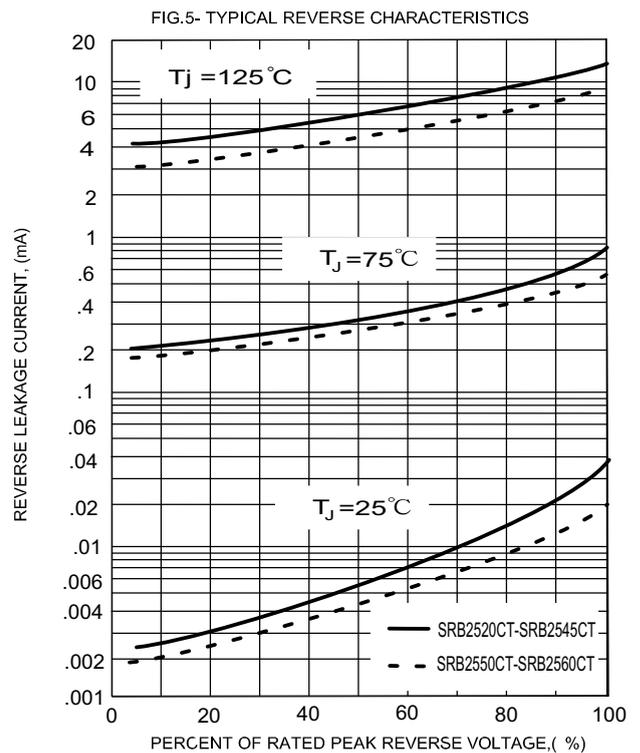
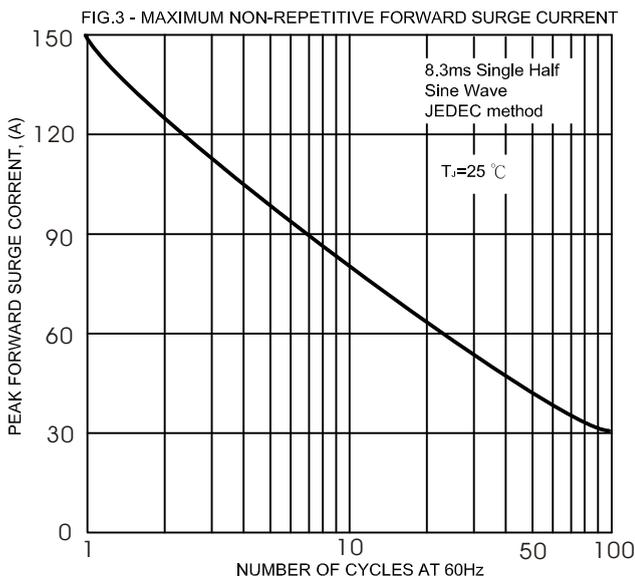
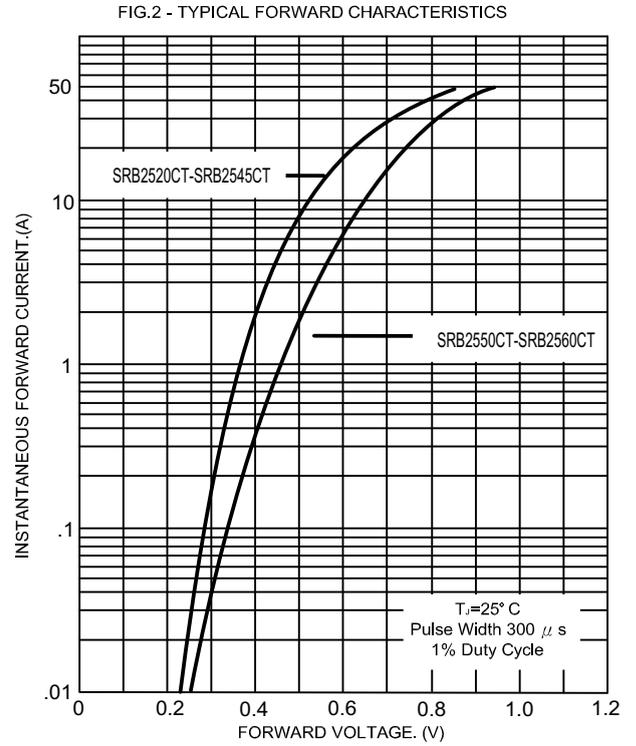
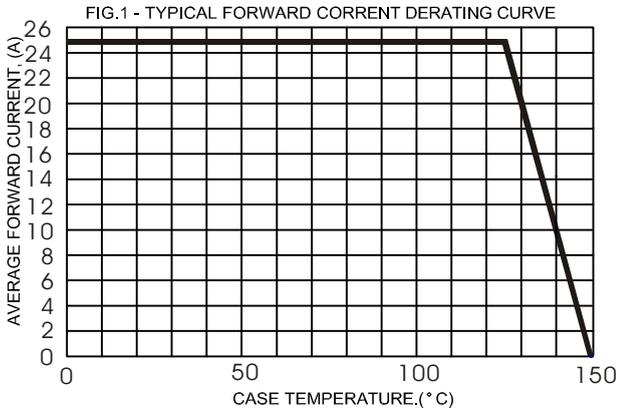
(1) Thermal resistance from junction to case

(2) Pulse test : 300 us pulse width, 1% duty cycle

(3) Marking : SR2520CT = SR2520 (Without Marking "CT")
Symbol Marking



RATINGS AND CHARACTERISTIC CURVES





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