SCHTTKY BARRIER RECTIFIER

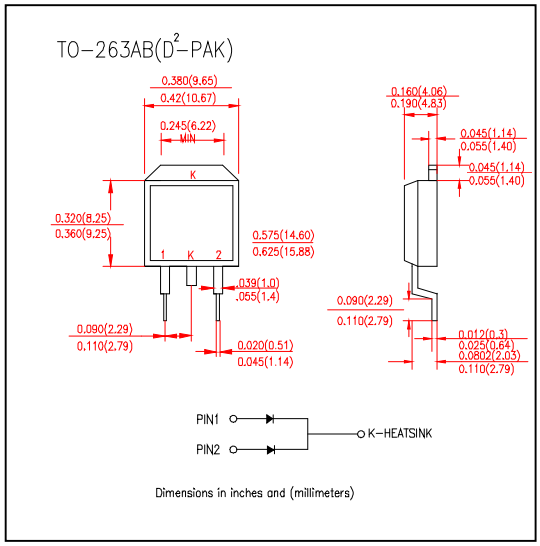
SRB2020C THRU SRB20100C

VOLTAGE RANGE **20 to 100 Volts**

CURRENT **20.0 Ampere**

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss,high efficiency
- Low forward voltage,high current capability
- High surge capacity
- For use in low voltage, high frequency inverters Free wheeling, and polarity protection applications



MECHANICAL DATA

- Case: D^2 –PAK/TO-263AB Molded Plastic
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Polarity: as marked
- Mounting position: Any
- Weight: 0.06ounce, 1.7grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SRB 2020C	SRB 2030C	SRB 2035C	SRB 2040C	SRB 2045C	SRB 2050C	SRB 2060C	SRB 2080C	SRB 20100C	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	25	28	32	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	80	100	Volts
Maximum Average Forward Rectified Current at T_C=90℃	$I_{(AV)}$	20.0									Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	150									Amps
Maximum Forward Voltage per at10.0A per element	V_F	0.65					0.75		0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element T_C = 25℃	I_R	0.5									mA
Maximum DC Reverse Current at rated DC Blocking Voltage per element T_C = 100℃	I_R	100									mA
Typical Junction Capacitance(Note3)	C_J	500									pF
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3.0									℃/W
Operating and Storage Temperature Range	T_J T_{STG}	(-55 to +150)									℃

Notes:

1. Thermal Resistance Junction to CASE
2. Measured at V_R=4v and f=1MHz

E-mail: sales@cnmic.com **Web Site:** www.cnmic.com

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RATING AND CHRACTERISTIC CURVES SRB2020C THRU SRB20100C

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

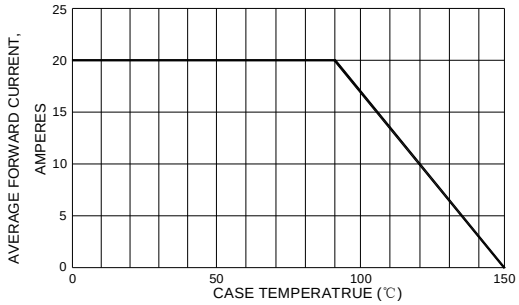

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERSTIC

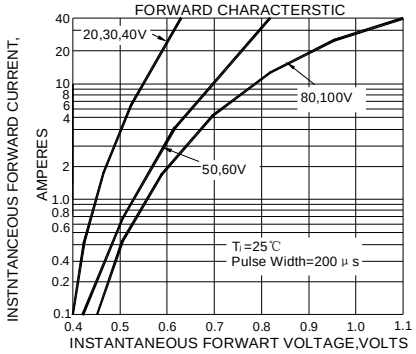

FIG.2-TYPICAL REVERSE CHARACTERISTICS

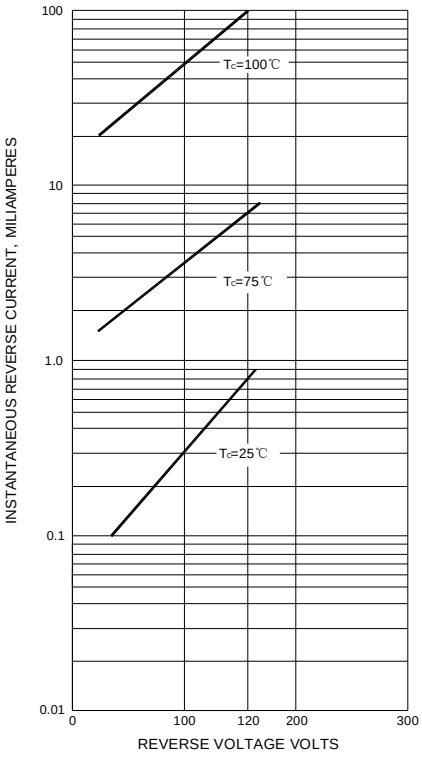

FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

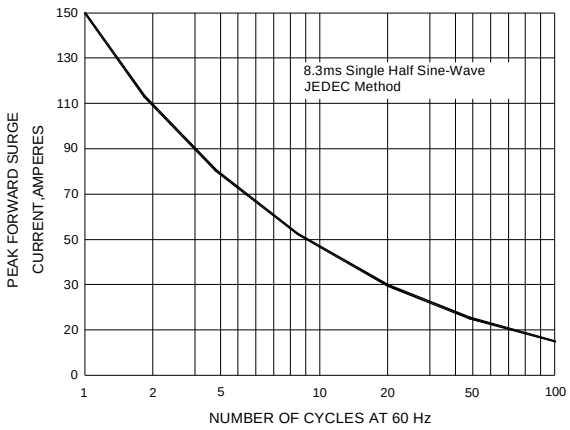

FIG.5-TYPICAL JUNCTION CAPACITANCE