



SCHTTKY BARRIER RECTIFIER

SRB3020C THRU SRB30100C

VOLTAGE RANGE

20 to 100 Volts

CURRENT

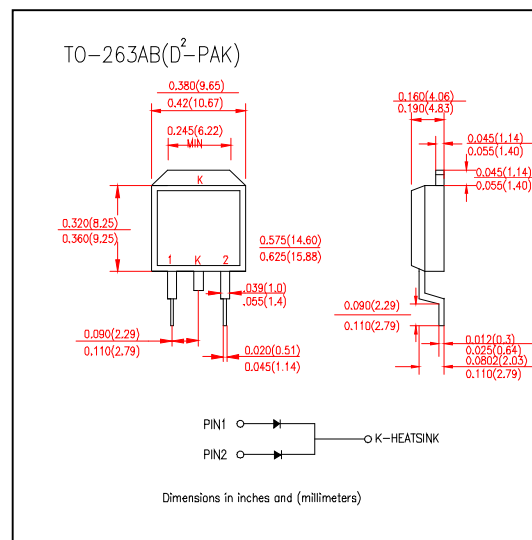
30.0 Ampere

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: D²-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°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	SRB 3020C	SRB 3030C	SRB 3035C	SRB 3040C	SRB 3045C	SRB 3050C	SRB 3060C	SRB 3080C	SRB 30100C	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 Tc=90℃		I _(AV)	30.0									Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	200									Amps
Maximum Forward Voltage per at15.0A per element		V _F	0.65	0.72			0.75			0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _C = 25℃	I _R	1.0									mA
	T _C = 100℃		100									
Typical Junction Capacitance(Note2)		C _J	500									pF
Typical Thermal Resistance (Note 1)		R _{θJC}	2.0									℃/W
Operating and Storage Temperature Range		T _J T _{STG}	(-55 to +150)									℃

Notes:

- Thermal Resistance Junction to CASE
- Measured at $V_R=4\text{v}$ and $f=1\text{MHz}$



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RATING AND CHARACTERISTIC CURVES SRB3020C THRU SRB30100C

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

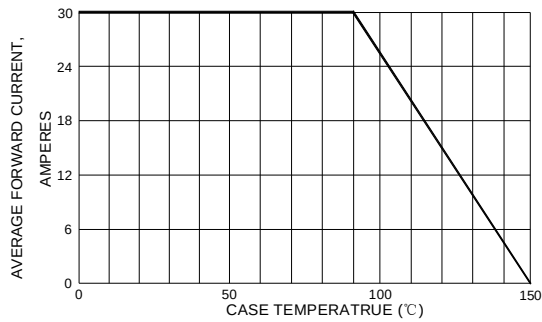


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTIC

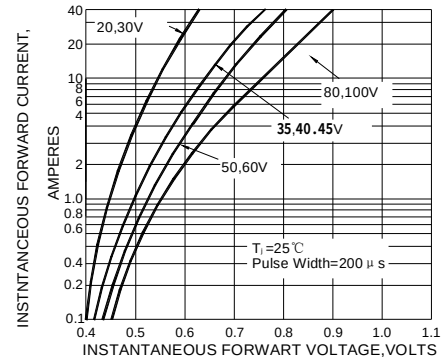


FIG.2-TYPICAL REVERSE
CHARACTERISTICS

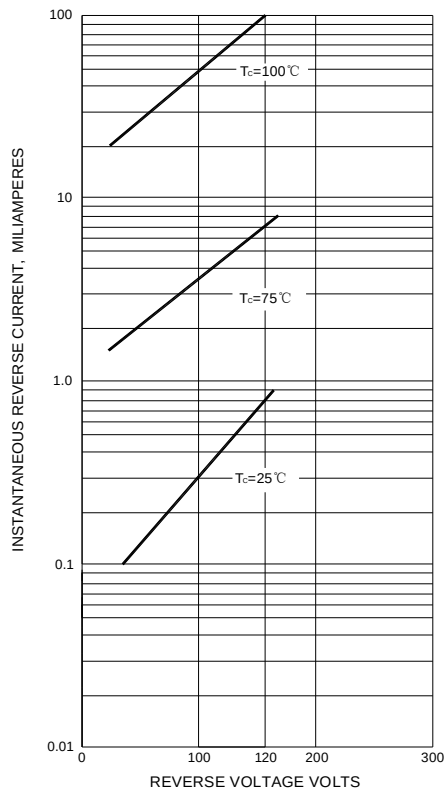


FIG.4-MAXIMUM NON-REPETITIVE
SURGE CURRENT

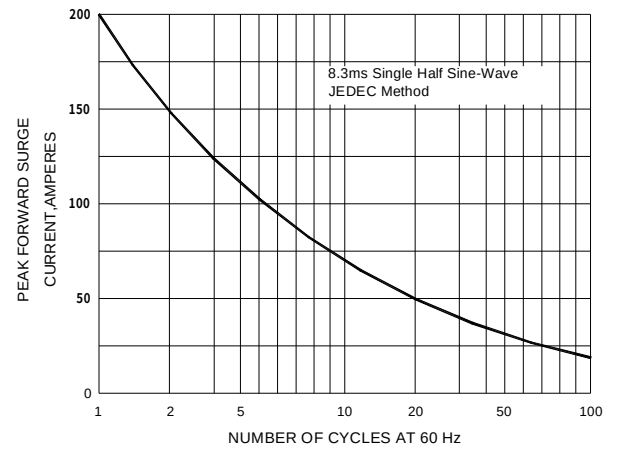


FIG.5-TYPICAL JUNCTION
CAPACITANCE

