



SCHTTKY BARRIER RECTIFIER

SRB1620C THRU SRB16100C

VOLTAGE RANGE

20 to 100 Volts

CURRENT

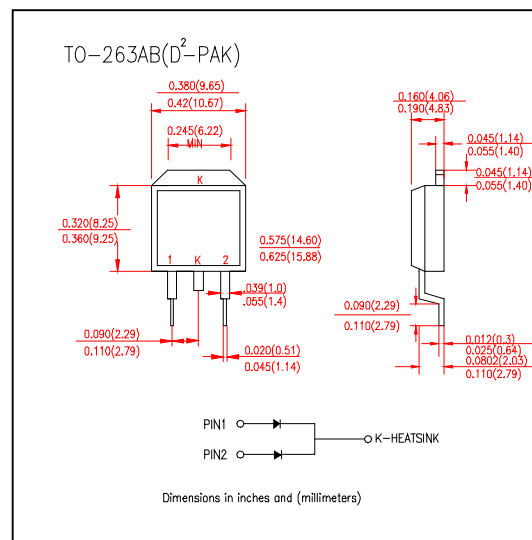
16.0 Amperes

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: TO-263AB(D² -PAK)Molded Plastic
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Polarity: as marked
- Mounting position: Any
- Weight: 0.06ounce, 1.9 grams



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 1620C	SRB 1630C	SRB 1635C	SRB 1640C	SRB 1645C	SRB 1650C	SRB 1660C	SRB 1680C	SRB 16100C	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)	16.0									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 at 8.0A 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
	T _C = 100℃		100									
Typical Junction Capacitance(Note2)		C _J	400									pF
Typical Thermal Resistance (Note 1)		R _{θJC}	3.0									℃/W
Operating and Storage Temperature Range		T _J T _{STG}	(-55 to +150)									℃

Notes:

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



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RATING AND CHARACTERISTIC CURVES SRB1620C THRU SRB16100C

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

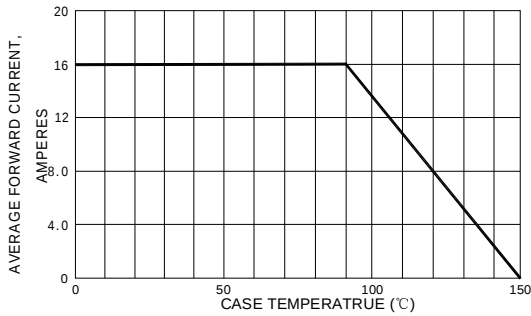


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTIC

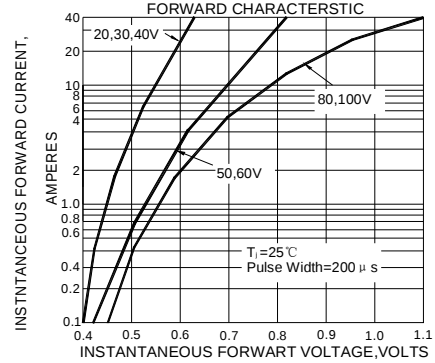


FIG.2-TYPICAL REVERSE
CHARACTERISTICS

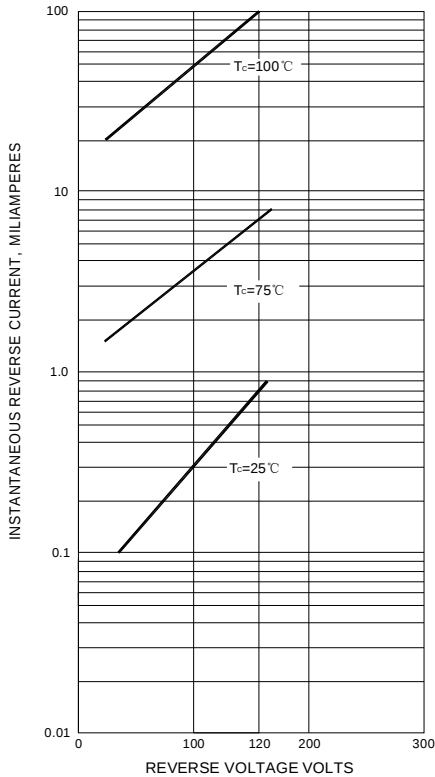


FIG.4-MAXIMUM NON-REPETITIVE
SURGE CURRENT

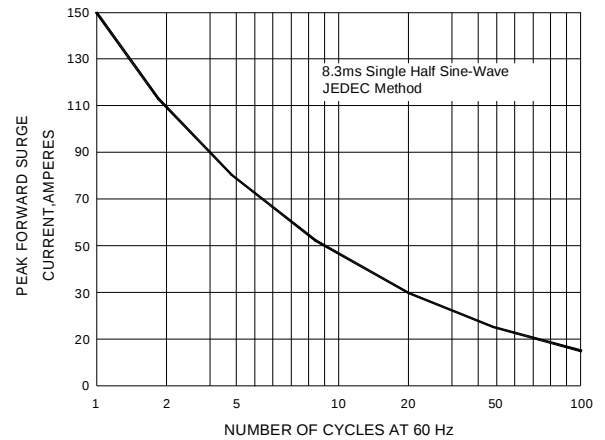


FIG.5-TYPICAL JUNCTION
CAPACITANCE

