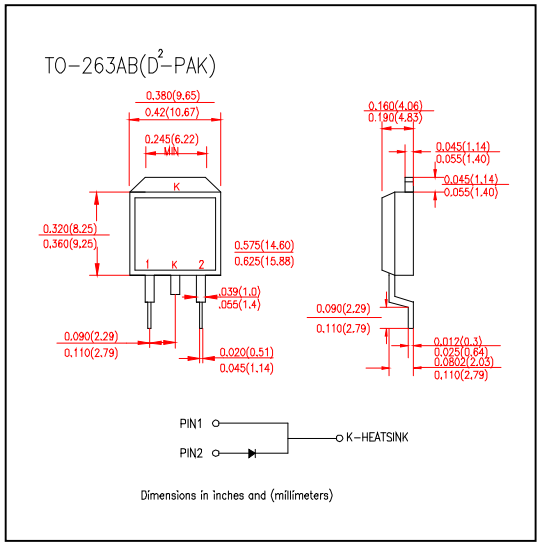
SCHTTKY BARRIER RECTIFIER

SRB1620 THRU SRB16100

VOLTAGE RANGE **20 to 100 Volts**
CURRENT **16.0 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: TO-263AB(D^2–PAK)Molded Plastic
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Polarity: as marked
- Mounting position: Any
- Weight: 0.08ounce, 2.24 grams

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 1620	SRB 1630	SRB 1635	SRB 1640	SRB 1645	SRB 1650	SRB 1660	SRB 1680	SRB 16100	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℃	$I_{(AV)}$	10.0									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 16.0A 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	50									mA
Typical Junction Capacitance(Note2)	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

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RATING AND CHRACTERISTIC CURVES SRB1620 THRU SRB16100

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

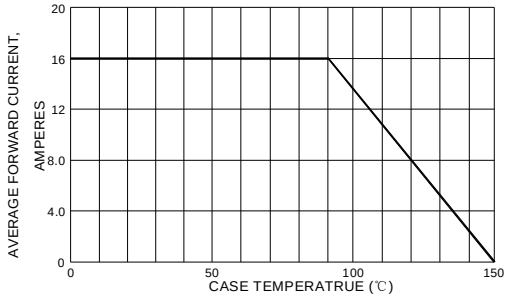

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERSTIC

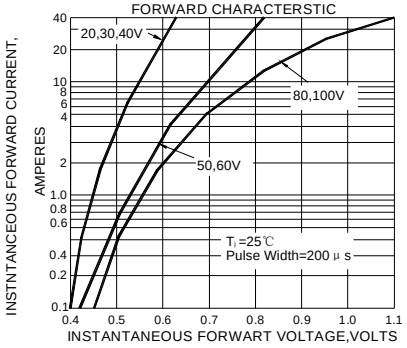

FIG.2-TYPICAL REVERSE CHARACTERISTICS

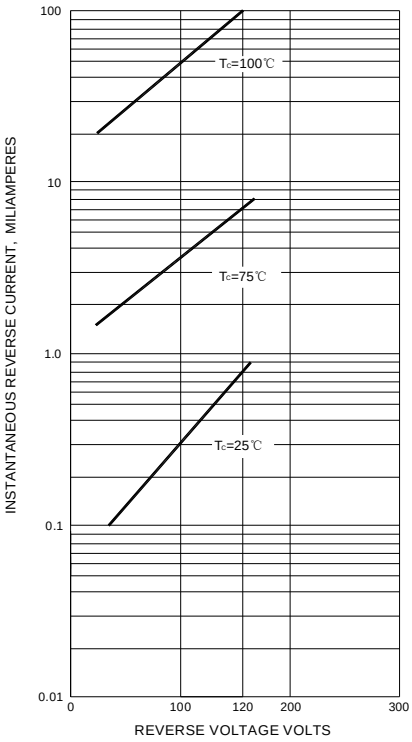

FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

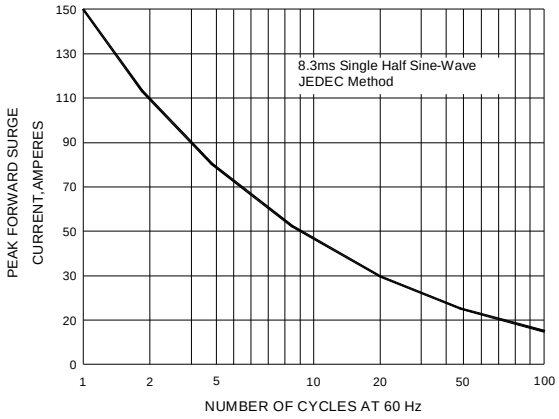

FIG.5-TYPICAL JUNCTION CAPACITANCE