



SCHTTKY BARRIER RECTIFIER

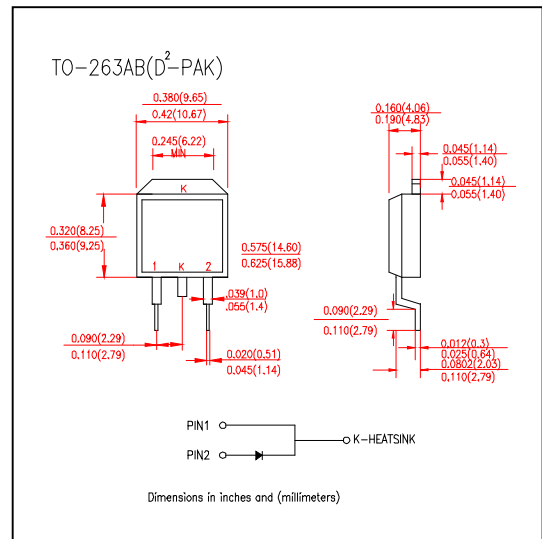
<b>SRB1620 THRU SRB16100</b>	<b>VOLTAGE RANGE</b>	<b>20 to 100 Volts</b>
	<b>CURRENT</b>	<b>16.0 Ampere</b>

**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<sup>2</sup>-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°C 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 <sub>RRM</sub>	20	30	35	40	45	50	60	80	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	25	28	32	35	42	56	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	35	40	45	50	60	80	100	Volts
Maximum Average Forward Rectified Current At T <sub>c</sub> =90°C	I <sub>(AV)</sub>	10.0									Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150									Amps
Maximum Forward Voltage per at 16.0A per element	V <sub>F</sub>	0.65			0.75			0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	I <sub>R</sub>	T <sub>c</sub> = 25°C									mA
		T <sub>c</sub> = 100°C									
Typical Junction Capacitance(Note2)	C <sub>J</sub>	500									pF
Typical Thermal Resistance (Note 1)	R <sub>θJC</sub>	3.0									°C/W
Operating and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>	(-55 to +150)									°C

**Notes:**

1. Thermal Resistance Junction to CASE
2. Measured at V<sub>R</sub>=4v and f=1MHz



# SCHTTKY BARRIER RECTIFIER

**SRB1620 THRU SRB16100**

**VOLTAGE RANGE** 20 to 100 Volts  
**CURRENT** 16.0 Ampere

## RATING AND CHARACTERISTIC CURVES SRB1620 THRU SRB16100

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

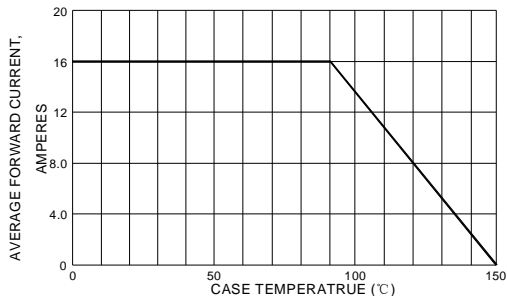


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

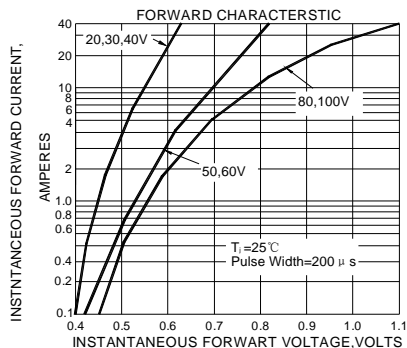


FIG.2-TYPICAL REVERSE CHARACTERISTICS

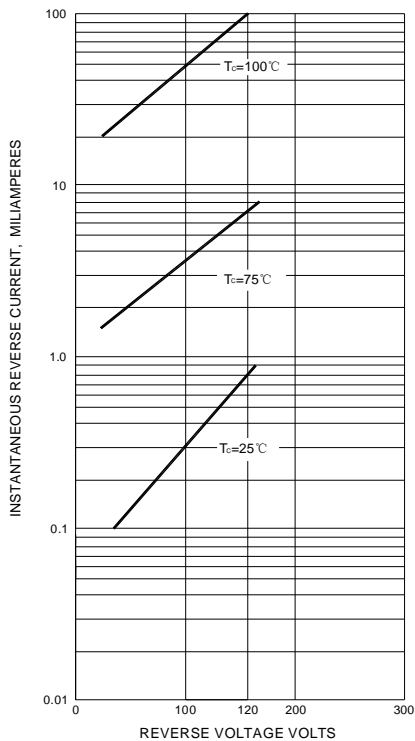


FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

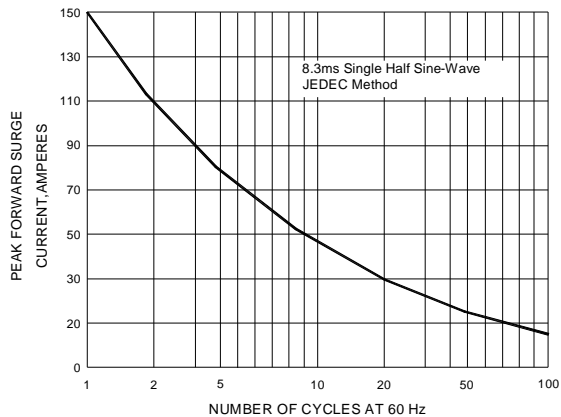


FIG.5-TYPICAL JUNCTION CAPACITANCE

