



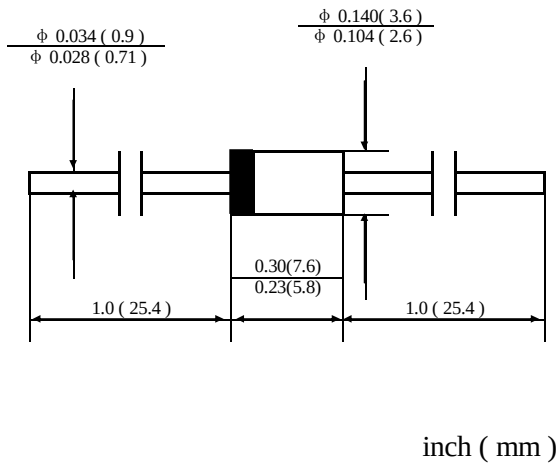
TIGER ELECTRONIC CO.,LTD

SB220 THRU SB260

1.5AMP PLASTIC SILICON RECTIFIERS

VOLTAGE RANGE: 20 to 60 VOLTS

DO-15



FEATURES

- . Low cost
- . Diffused junction
- . Low Leakage
- . Low forward voltage drop
- . High current capability
- . Easily cleaned with Freon. Alcohol. Isopropanol and similar solvents
- . The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- . Case: JEDEC DO-15. molded plastic
- . Terminals: Axial leads. Solderable per MIL - STD - 202. Method 208
- . Polarity: Color band denotes cathode
- . Weight: 0.072 ounce. 2.05 grams
- . Mounting position: Any

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%

	SYMBOL	SB220	SB230	SB240	SB250	SB260	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. T _A = 75°C	I _(AV)	2.0					A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load	I _{FSM}	60.0					A
Maximum Forward Voltage at 1.5A DC	V _F	0.55			0.70 0.65		V
Maximum Reverse Current T _j = 25°C at Rated DC Blocking Voltage T _j = 100°C	I _R	0.5 15.0					mA
Typical Junction Capacitance (Note 1)	C _j	150					pF
Typical Thermal Resistance (Note 2)	R _{QJA}	20					°C/W
Operating Junction Temperature Range	T _j	— 55 to 125					°C
Storage Temperature Range	T _{STG}	— 55 to 150					°C

- NOTE:**
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
 2. Thermal resistance junction to Ambient at 9.5mm lead length,P.C.B.mounted



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Fig.1-Forward Current Derating Curve

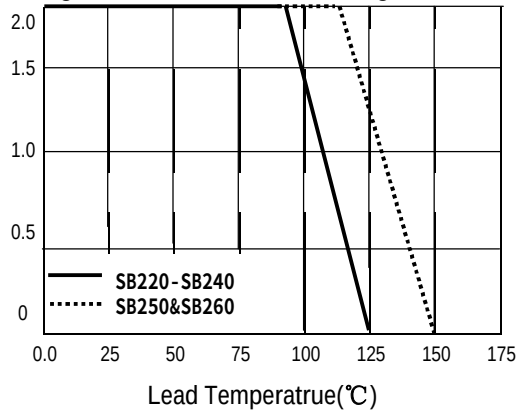


Fig.2-Maximum Non-repetitive Surge Current

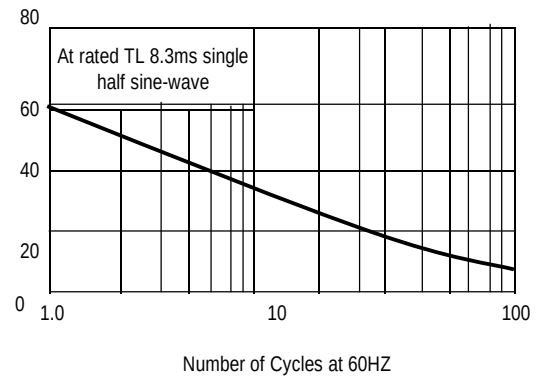


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

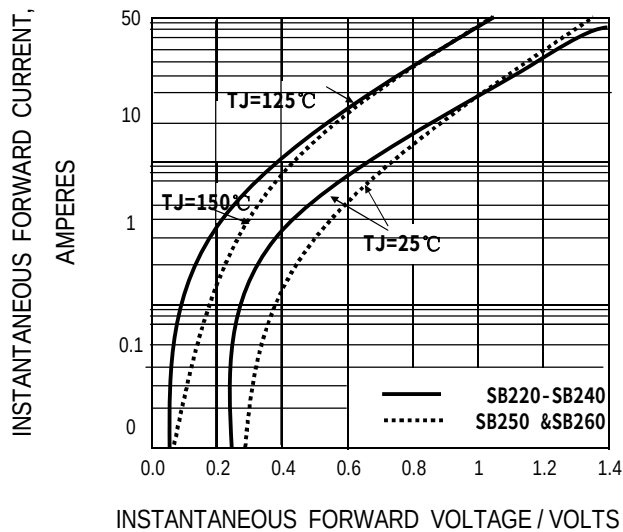


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS

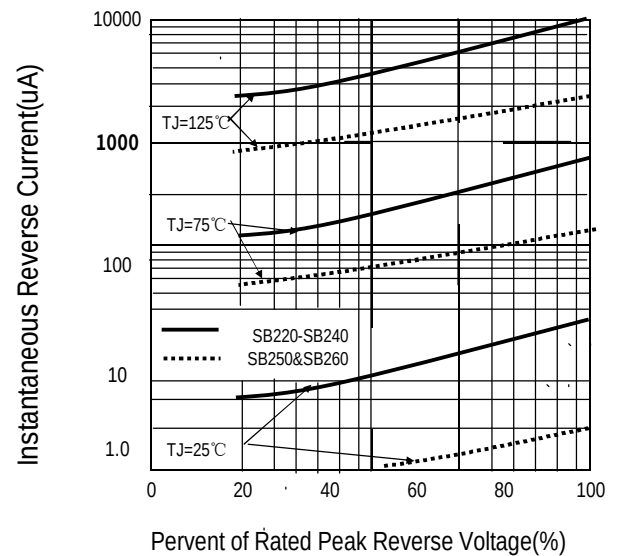


FIG. 5 -- Typical Junction Capacitance

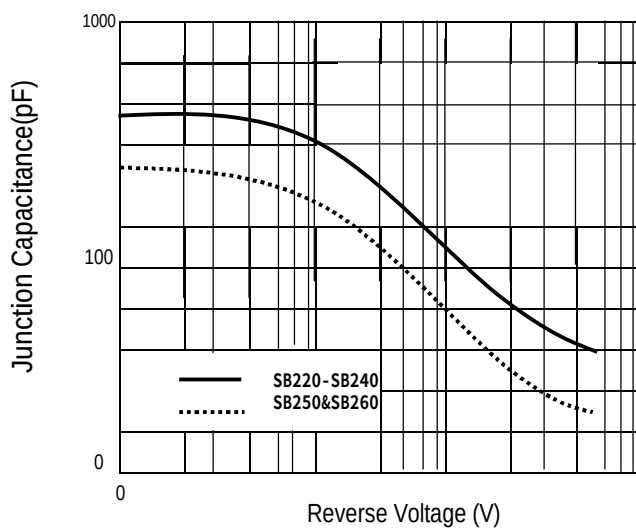


FIG. 6 -- Typical Transient Thermal Impedance

