

SB601 THRU SB607

6.0 AMP SILICON BRIDGE

FEATURES

- * Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0
- * This series is UL recognized under component index, file number E127707
- * High overload surge capacity
- * Ideal for printed circuit board
- * Typical IR less than 0.1 uA
- * High case dielectric strength
- * High temperature soldering guaranteed : 265°C/10 seconds/.375"(9.5mm)lead lengths at 5 lbs(2.3kg) tension

MECHANICAL DATA

- * Case: Void-free plastic package
- * Lead: Plated lead solderable per MIL-STD-202E method 208C
- * Polarity: Polarity symbols marked on case
- * Mounting: Thru hole for #6 screw
- * Mounting position: Any
- * Weight: 0.2 ounce, 5.5 grams

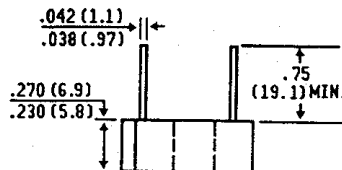
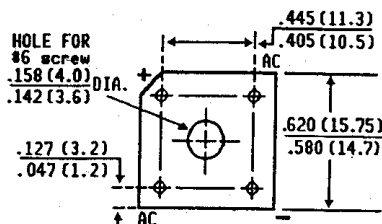
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

6.0 Amperes

SB-6



Polarity shown on side of case: positive lead by beveled corner

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load derate current by 20%.

	SYMBOLS	SB601	SB602	SB603	SB604	SB605	SB606	SB607	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectifier Output Current at	I(AV)	TC=100°C(Note2)						6.0		A
		TA=25°C(Note3)						3.0		
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC method)	I _{fsm}							150		A
Maximum instantaneous Forward Voltage drop per Bridge Element at 3.0A	V _F							1.2		V
Maximum Reverse Current at Rated DC	I _R							10.0		uA
Blocking Voltage per element	HTIR							1.0		mA
Typical Junction Capacitance (Note1)	C _J							35.0		pf
Typical Thermal Resistance (Note2)	R _{THjc}							8.0		°C/W
Operating and Storage Temperature Range	T _J , T _{stg}							-65 TO +150		°C

NOTES :

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Bridge mounted on a 6" * 5.5" * .11" THK(15cm * 14cm * 0.3cm)AL Plate
3. Bridge mounted on P.C.Board .375"(9.5mm)lead length with .47" sq.(12mm sq.) copper pads.

RATINGS AND CHARACTERISTIC CURVES SB601 THRU SB607

FIG. 1 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

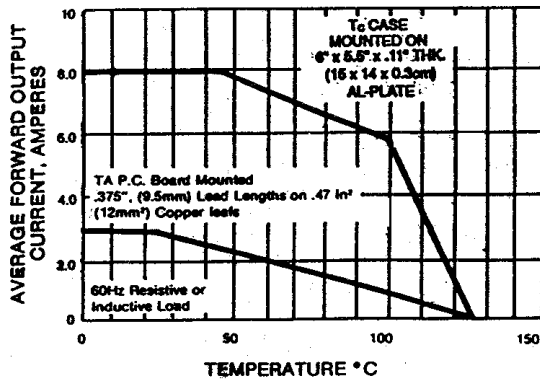


FIG. 2 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

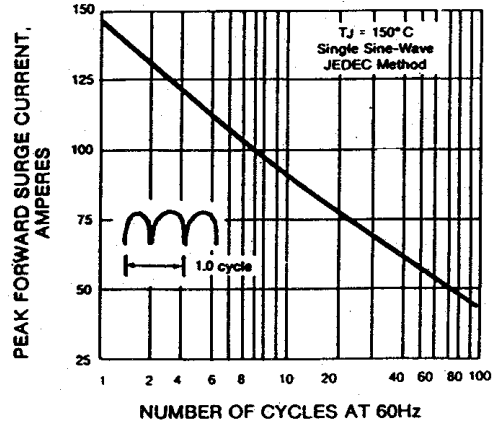


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

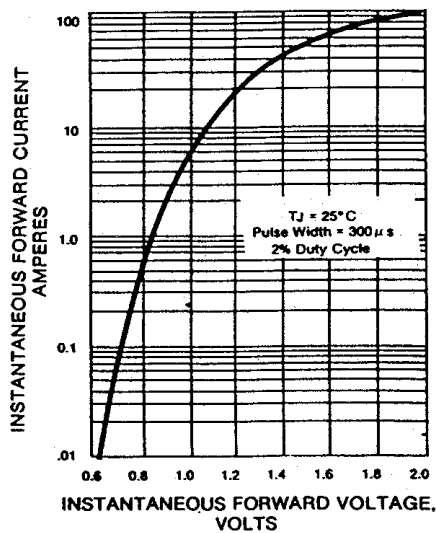


FIG. 4 — TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

