SB601 THRU SB607

6.0 AMP SILICON BRIDGE

FEATURES

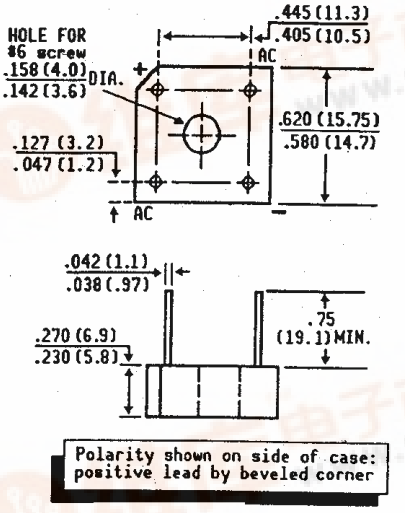
* Plastic material used carries Underwriters Laboratory Flammability Classification 94V–0
* This series is UL recognized under component index, file number E127707
* High overload surge capacity
* Ideal for printed circuit board
* Typical IR less than 0.1 uA
* High case dielectric strength
* High temperature 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



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		Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward	TC=100°C(Note2)	I(AV)	6.0							A
Rectifier Output Current at	TA=25°C(Note3)		3.0							
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC method)		Ifsm	150							A
Maximum instantaneous Forward Voltage drop per Bridge Element at 3.0A		VF	1.2							V
Maximun Reverse Current at Rated DC	@TA=25°C	IR	10.0							uA
Blocking Voltage per element	@TA=100°C	HTIR	1.0							mA
Typical Junction Capacitance (Note1)		CJ	35.0							pf
Typical Thermal Resistance (Note2)		RTHjc	8.0							°C/W
Operating and Storage Temperature Range		Tj,Tstg	–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.

SURGE COMPONENTS, INC. 1016 GRAND BLVD., DEER PARK, NY 11729

RATINGS AND CHARACTERISTIC CURVES SB601 THRU SB607

FIG. 1 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

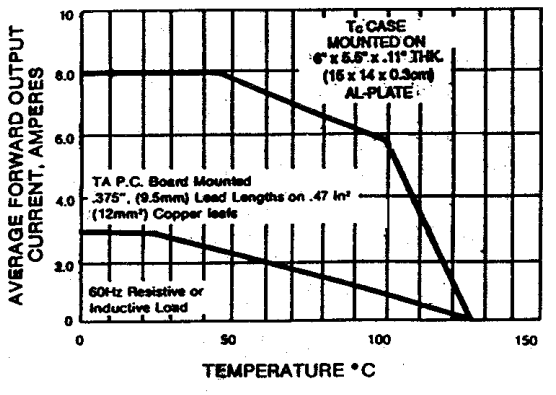


FIG. 2 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

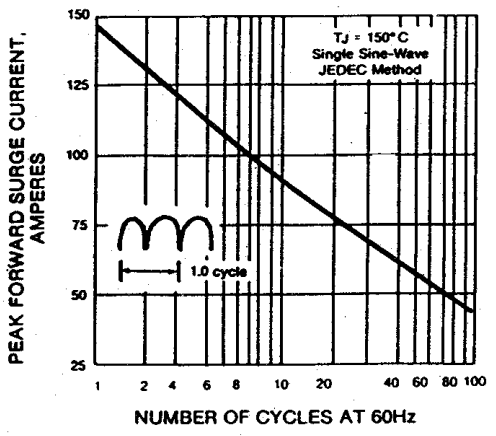


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

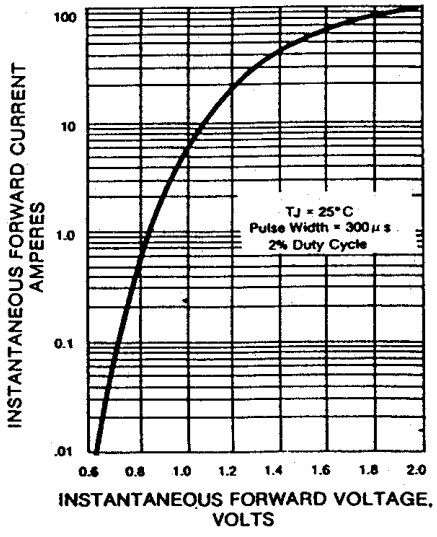


FIG. 4 — TYPICAL REVERSE CHARACTERISTICS PER ELEMENT