SB35005 THRU SB3510

35.0 AMP SILICON BRIDGE

FEATURES

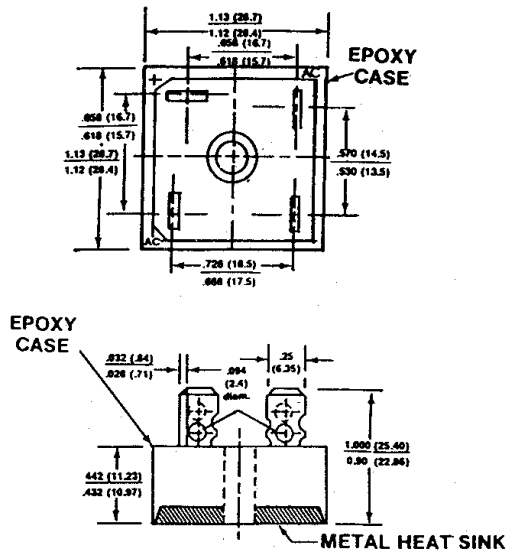
* Universals 4-way terminals: snap-on, wrap-around, solder or P.C. board mounting
* This series is UL recognized under component index, file number E127707
* High overload surge RATING TO 400A
* High case dielectric strength to 2500V
* Typical IR less than 0.1 uA
* Terminals solderable per MIL-STD-202 method 208
* 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
* Terminal: Either plated .25"(6.35mm). Faston or plated copper lead .04"(1.02mm)diameter. Suffix letter "W" added to indicate leads
* Polarity: Polarity symbols marked on case
* Mounting position: Bolt down on heat sink for maximum heat transfer efficiency
* Weight: 0.706 ounce, 20 grams

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
35.0 Amperes

SB-35



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	SB35005	SB3501	SB3502	SB3504	SB3506	SB3508	SB3510	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 Rectifier Output Current at Tc=55°C (Note1)		I(AV)	35.0							A
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC method)		Ifsm	400.0							A
Rating for fusing(t<8.35ms)		I^2t	660.0							A^2s
Maximum instantaneous Forward Voltage drop per Bridge Element at 17.5A		VF	1.2							V
Maximun Reverse Current at Rated DC Blocking Voltage per element	@TA=25°C	IR	10.0							uA
	@TC=100°C	HTIR	500.0							uA
Isolation Voltage from Case to Leads			2500							Vac
Typical Thermal Resistance (Note1)		RTHjc	2.0							°C/W
Operating and Storage Temperature Range		Tj,Tstg	-65 TO +150							°C

NOTES :
1. Bridge mounted on a 9"*3.5"*4.6"(23cm*9cm*11.8cm)AL Wing Plate.

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RATING AND CHARACTERISTIC CURVES SB35005 THRU SB3510

FIG. 1 MAXIMUM OUTPUT RECTIFIED CURRENT

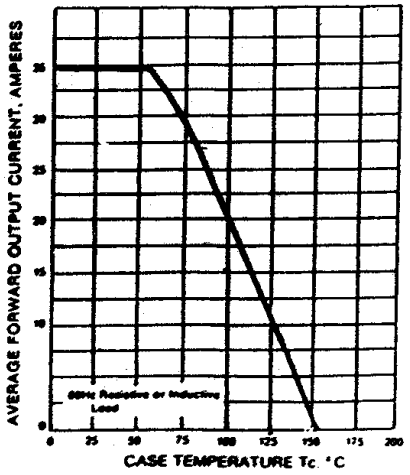


FIG.2 MAXIMUM POWER DISSIPATION

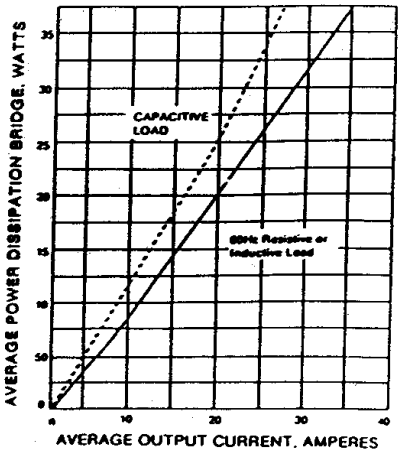


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

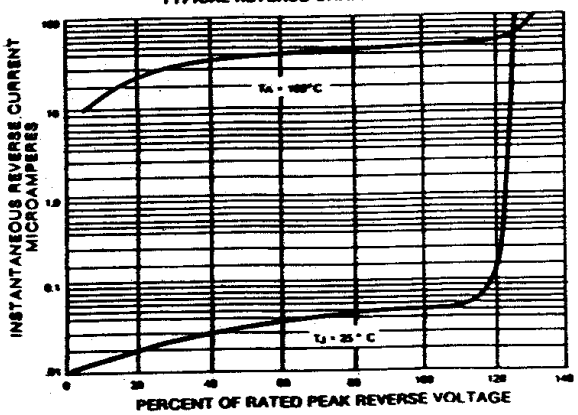


FIG. 4

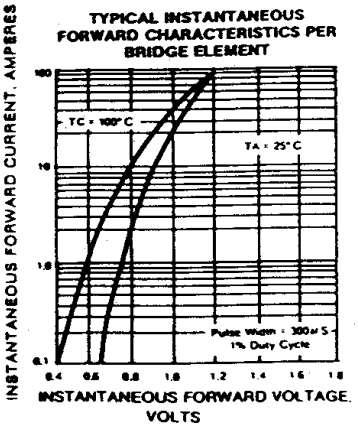


FIG. 5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

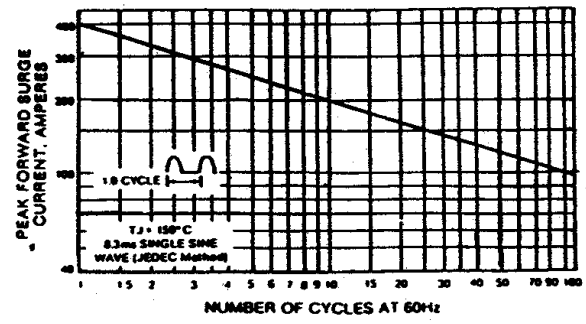
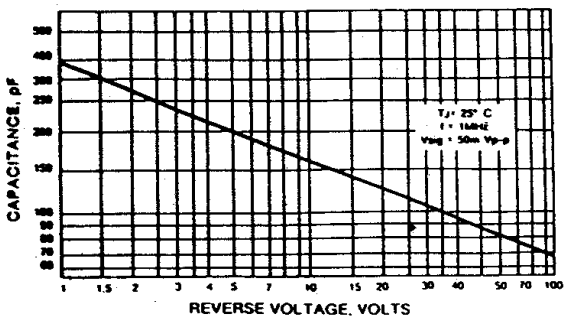


FIG. 6 TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



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SB35005W THRU SB3510W

35.0 AMP SILICON BRIDGE

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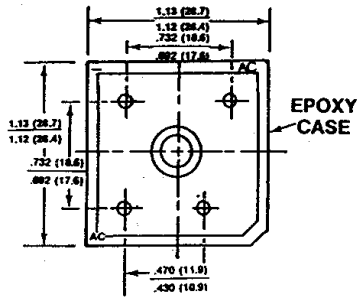
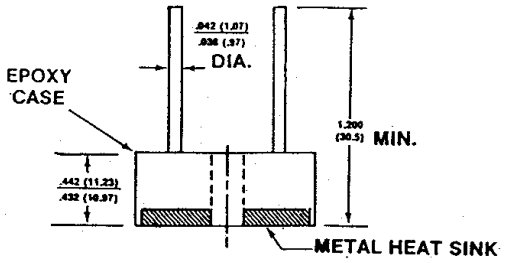
SB-35





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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		SYMBOLS	SB35005W	SB3501W	SB3502W	SB3504W	SB3506W	SB3508W	SB3510W	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	V
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Maximum Average Forward Rectifier Output Current at Tc=55°C (Note1)		I(AV)	35.0							A
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RATING AND CHARACTERISTIC CURVES SB35005W THRU SB3510W

FIG. 1 MAXIMUM OUTPUT RECTIFIED CURRENT

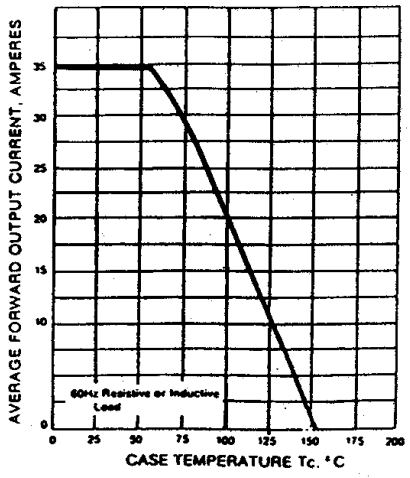


FIG.2 MAXIMUM POWER DISSIPATION

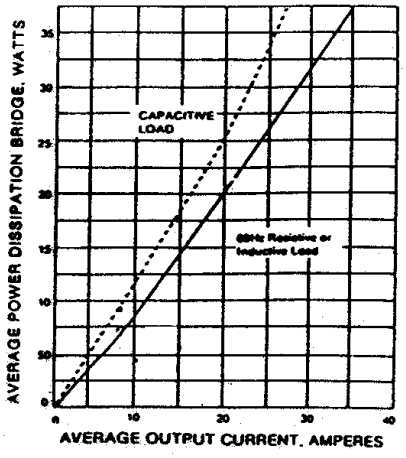


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

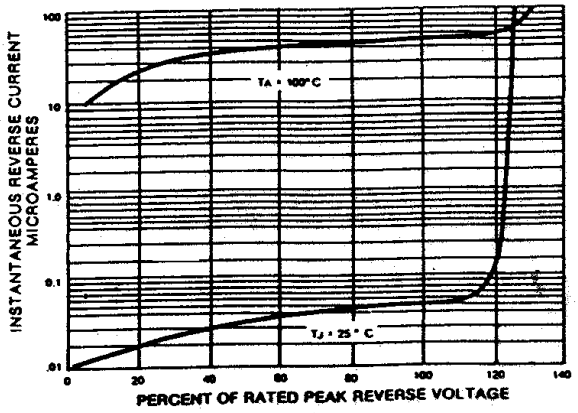


FIG. 4

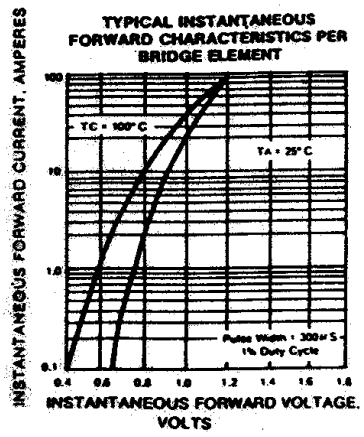


FIG. 5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

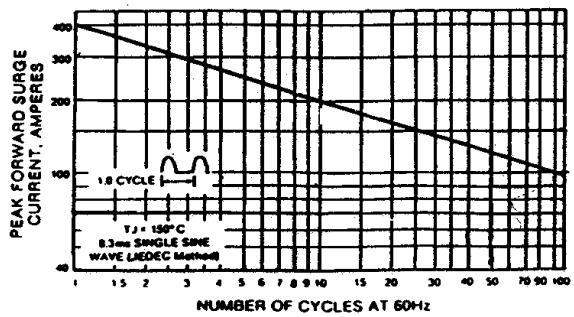
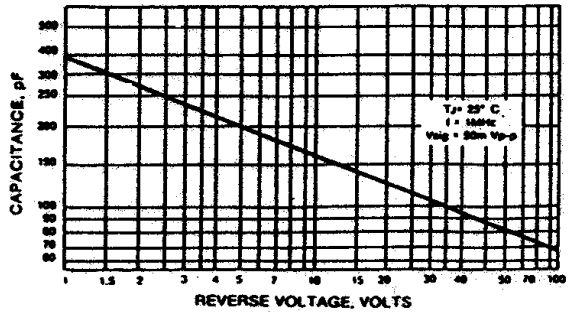


FIG. 6 TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



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