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SB25005 THRU SB2510

25.0 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 300A
- * 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

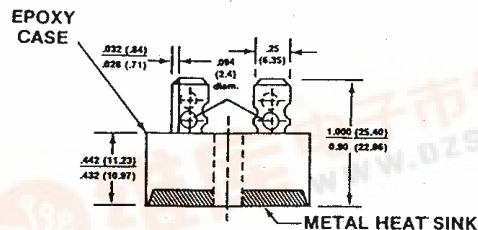
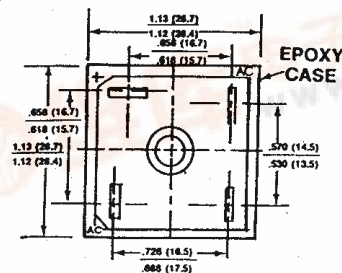
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

25.0 Amperes

SB-25



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	SB25005	SB2501	SB2502	SB2504	SB2506	SB2508	SB2510	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	I(AV)	25.0							A
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC method)	Ifsm	300.0							A
Rating for fusing(t<8.35ms)	I²t	375.0							A²s
Maximum Instantaneous Forward Voltage drop per Bridge Element at 12.5A	VF	1.2							V
Maximum Reverse Current at Rated DC @TA=25°C	IR	10.0							uA
Blocking Voltage per element @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 5"×6"×.49"(12.8cm×15.2cm×12.4cm)AL Wing Plate.



RATINGS AND CHARACTERISTIC CURVES SB25005 THRU SB2510

FIG. 1 MAXIMUM OUTPUT RECTIFIED CURRENT

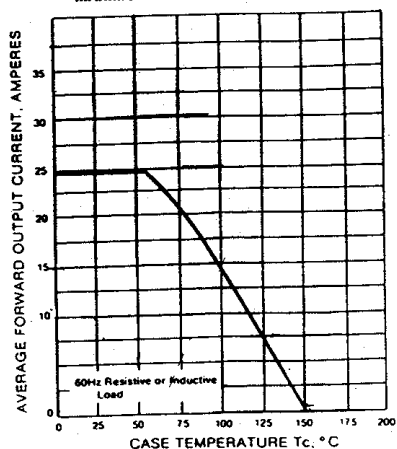


FIG. 2 MAXIMUM POWER DISSIPATION

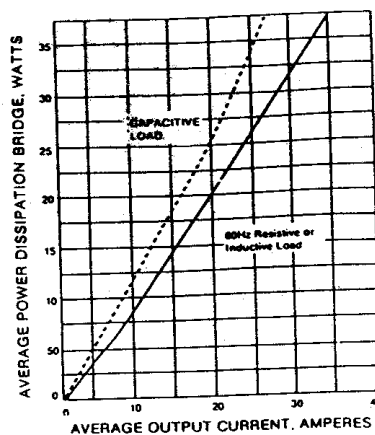


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

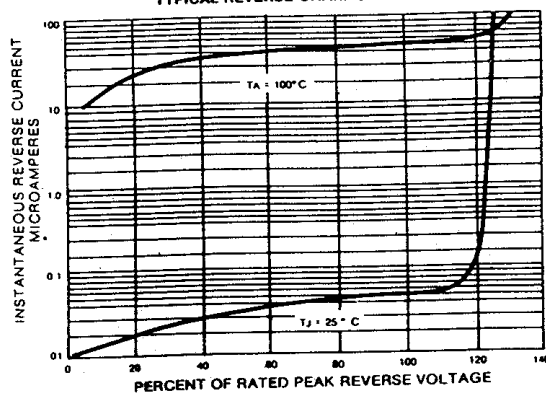


FIG. 4

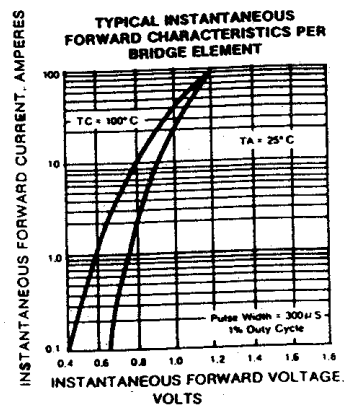


FIG. 5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

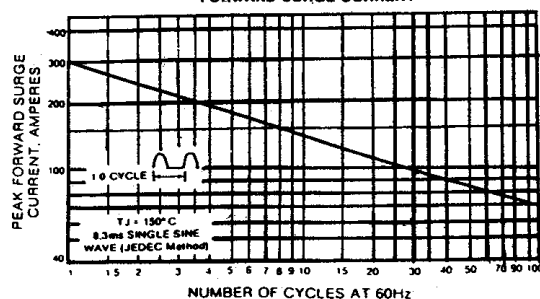
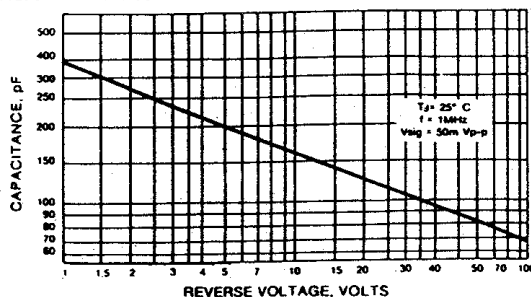


FIG. 6 TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



SB25005W THRU SB2510W

25.0 AMP SILICON BRIDGE

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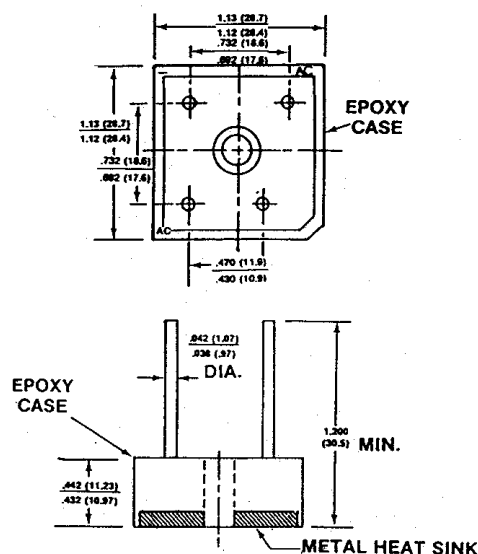
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SB-25



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	SYMBOLS	SB25005W	SB2501W	SB2502W	SB2504W	SB2506W	SB2508W	SB2510W	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
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Maximum Reverse Current at Rated DC @T _A =25°C	I _R	10.0							uA
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NOTES:

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RATINGS AND CHARACTERISTIC CURVES SB25005W THRU SB2510W

FIG. 1 MAXIMUM OUTPUT RECTIFIED CURRENT

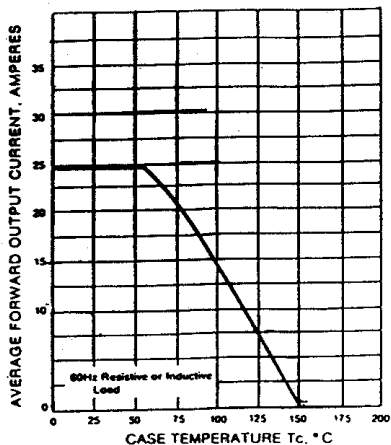


FIG. 2 MAXIMUM POWER DISSIPATION

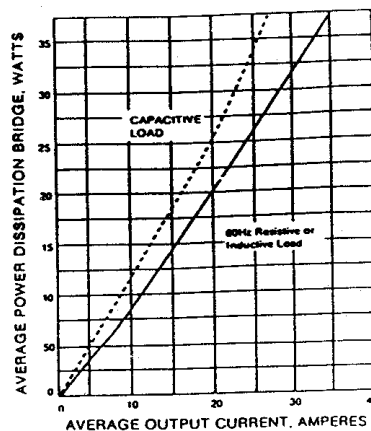


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

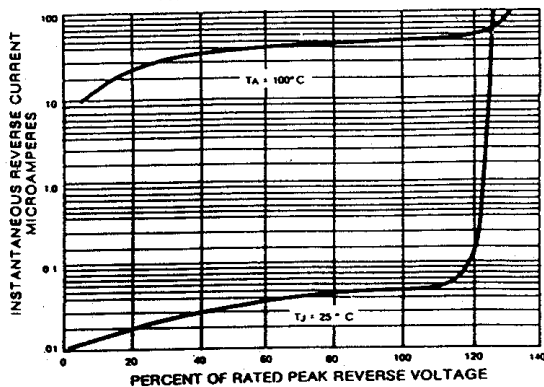


FIG. 4

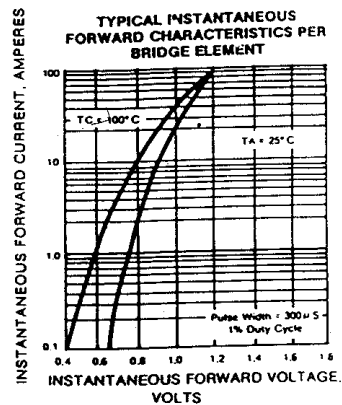


FIG. 5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

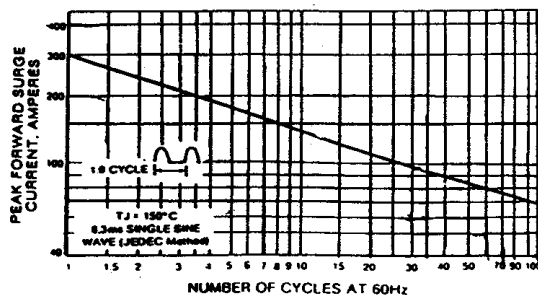


FIG. 6 TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

