Suntan® Su®

BR25005W THRU BR2510W

Single Phase 25 AMPS.Silicon Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 25 Amperes

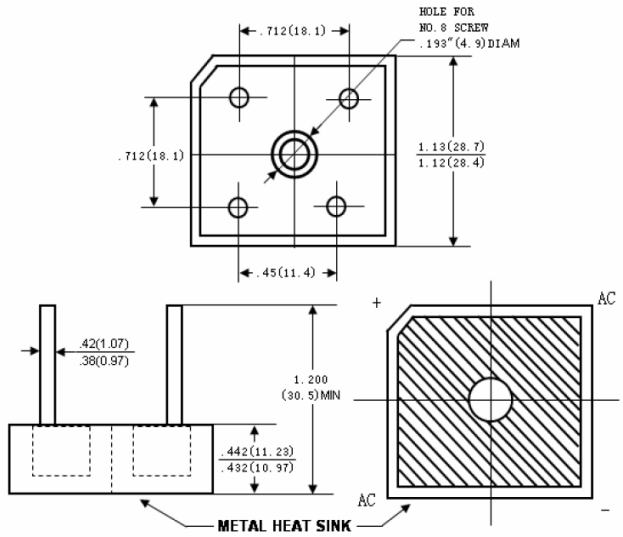
FEATURES

- ◆Ideal for printed circuit board
- ◆Reliable low cost construction technique results in inexpensive product
- ◆High temperature soldering guaranteed: 260℃ / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ◆UL Recognized File number: E347215

MECHANICAL DATA

- ◆Case: Molded plastic
- ◆Lead: solder plated
- ◆Polarity: As marked

BR-W



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%

Type Number		BR 25005W	BR 2501W	BR 2502W	BR 2504W	BR 2506W	BR 2508W	BR 2510W	UNITS
Maximum Repetitive 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 Rectified Current @T_C = 55℃	$I_{(AV)}$	25							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	400							A
Maximum Instantaneous Forward Voltage @12.5A	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking voltage per Element	I_R	5.0							μA
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	2.0							℃/W
Operating Temperature Range	T_J	-55 to +125							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note: 1. Thermal resistance from Junction to Case with units mounted on a 5" x 4" x 3" (12.7 x 10.2 x 7.3 cm) Al.-wing plate.

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RATING AND CHARACTERISTIC CURVES BR25005W THRU BR2510W

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

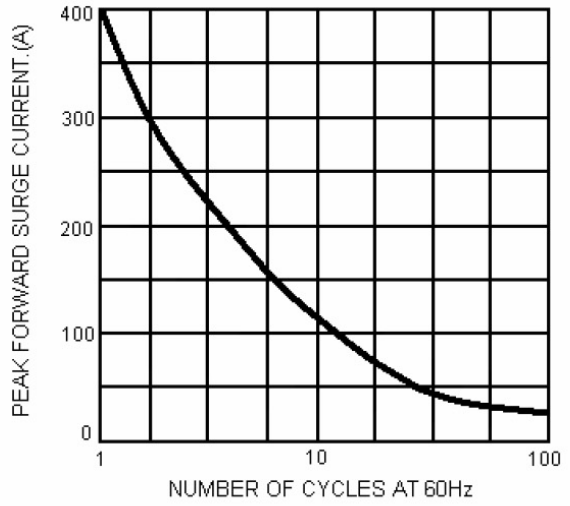


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

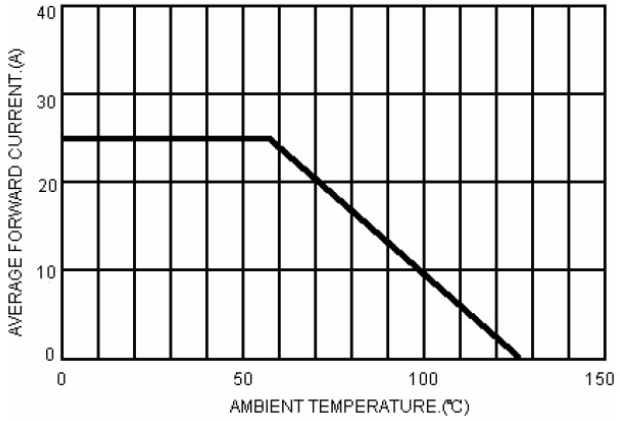


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

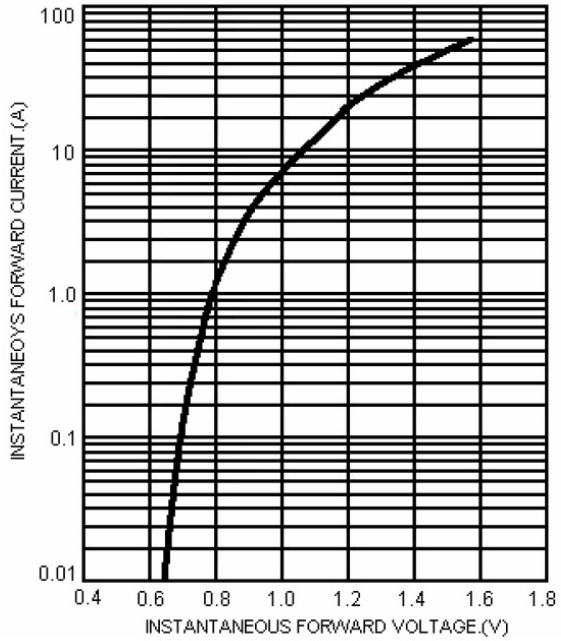
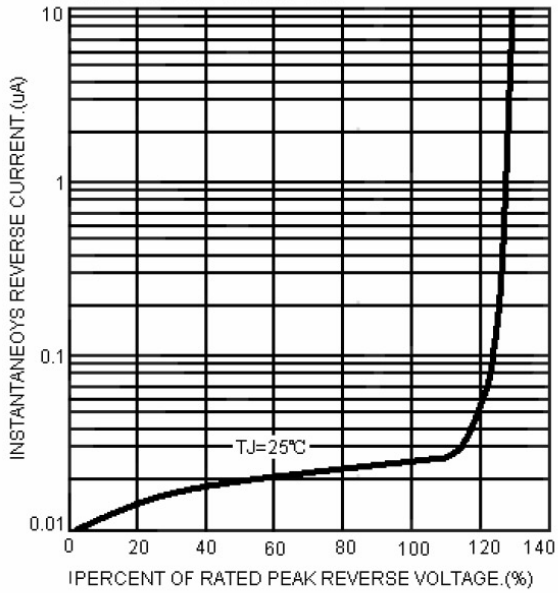


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.