

BR25005W THRU BR2510W

SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25.0 Ampere

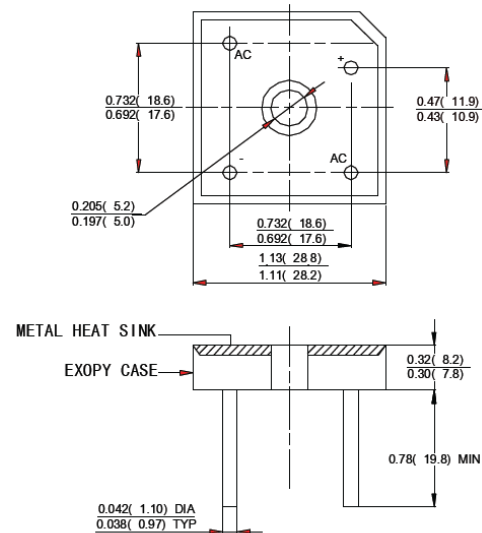
FEATURES

- ◆ High forward surge current capability.
- ◆ Low thermal resistance.
- ◆ High isolation voltage from case to lugs.
- ◆ High temperature soldering guaranteed:
260°C/10 second, at 5 lbs. (2.3kg) tension.

Mechanical Data

- ◆ Case: Molded plastic with Heatsink internally moun in the bridge encapsulation
- ◆ Terminal: Plated 0.25" (6.35mm) lug.
- ◆ Polarity: Polarity symbols marked on case.
- ◆ Mounting: Thru hole for #10 screw, 20 in.- lbs. Torque Max.
- ◆ Weight:1.02 ounce, 29gram.

BR-W



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

PARAMETER	SYMBOL	BR 25005W	BR 2501W	BR 2502W	BR 2504W	BR 2506W	BR 2508W	BR 2510W	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_C=55^\circ C$ (Note1, 2)	$I_{(AV)}$	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300							Amps
Rating for Fusing($t < 8.3ms$)	I_{ET}	373							A^2s
Maximum Instantaneous Forward Voltage at 12.5A	V_F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	5.0							μA mps
	$T_A=150^\circ C$	0.5							mAmps
Isolation Voltage from case to lug	V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)	$R_{\theta JL}$	2.0							$^\circ C/W$
Operating Temperature Range	T_J	-65 to +150							$^\circ C$
Storage Temperature Range	T_{stg}	-65 to +150							$^\circ C$

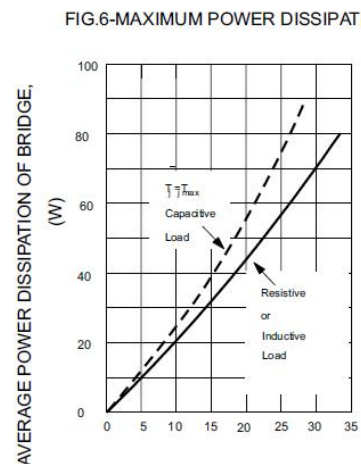
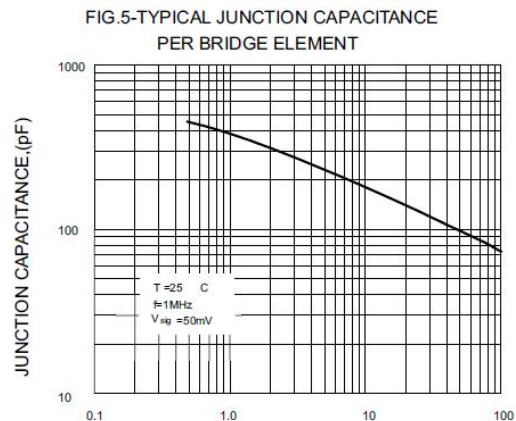
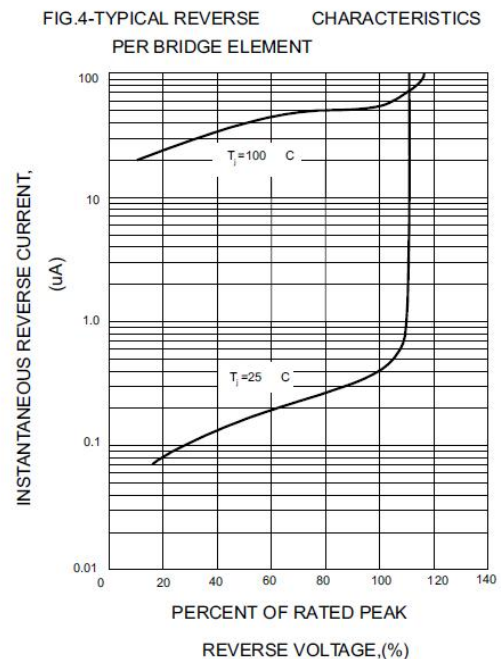
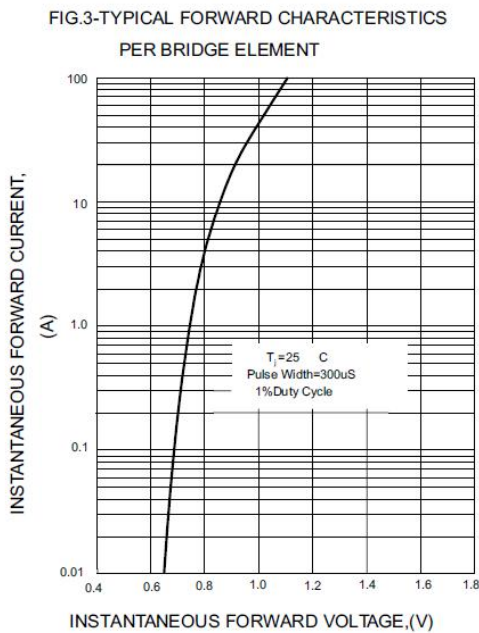
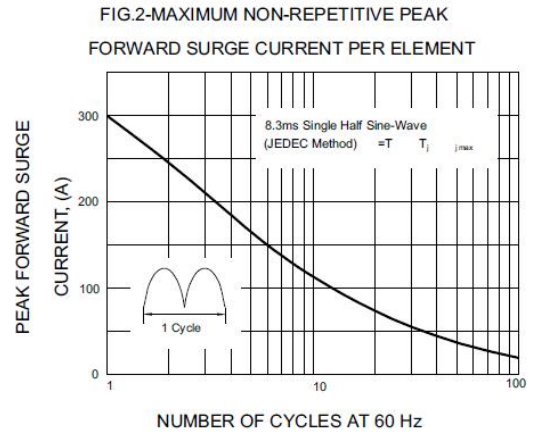
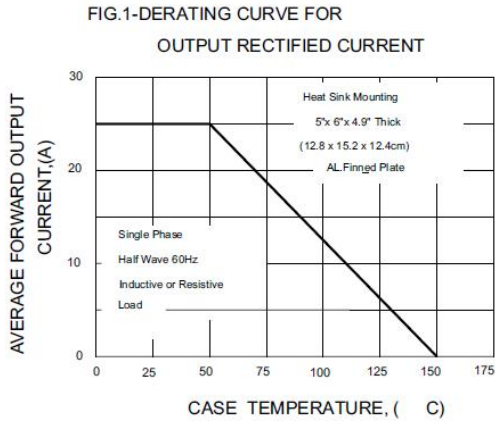
Note: 1. Unit mounted on 9" x 3.5" x 4.6" thick (23x9x11.8mm) Al. finned plate.

2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screws.

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RATING AND CHARACTERISTIC CURVES BR25005W THRU BR2510W



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