Kingtronics®

BR25005W THRU BR2510W

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS **REVERSE VOLTAGE** 50 to 1000 Volts **FORWARD CURRENT** 25.0 Ampere

BR-W

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.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

0.732(18.6) 0.692(17.6) 0.197(5.0) 0.197(5.0) 0.732(18.6) 0.692(17.6) 1.13(28.8) 1.11(28.2) METAL HEAT SINK EXOPY CASE

0.32(8.2) 0.33(7.8) 0.78(19.8) MIN

Dimensions in inches and (millimeters)

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 Revere 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 Tc=55°C (Note1, 2)		I _(AV)	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	300							Amps
Rating for Fusing(t<8.3ms)		I ₂ T	373							A ² s
Maximum Instantaneous Forward Voltage at12.5A		V _F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	T _A =25℃	I R	5.0							μAmps
	T _A =150°C		0.5							mAmps
Isolation Voltage from case to lug		V _{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)		Røjl	2.0							℃W
Operating Temperature Range		TJ	-65 to +150							$^{\circ}$
Storage Temperature Range		Тѕтс	-65 to +150							$^{\circ}$
4. Unit provinted an O''. O F''. A C'' think (OO. O. AA Opens) All firm and plate										•

¹⁻ Unit mounted on 9"x3.5"x4.6" thick (23x9x11.8mm) Al. finned plate.

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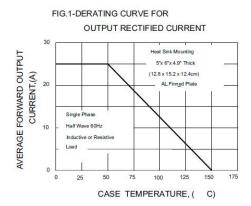
²⁻ Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screws.

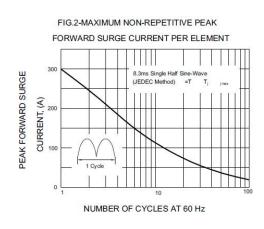
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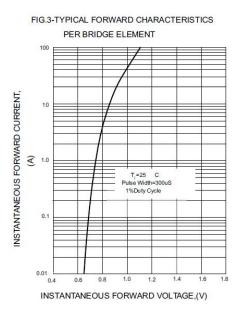
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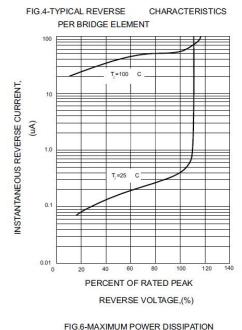
BR25005W THRU BR2510W

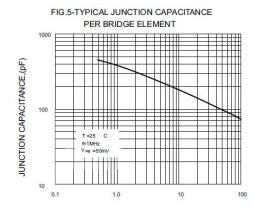
RATINGS AND CHARACTERISTIC CURVES

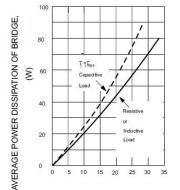












Note: Specifications are subject to change without notice.

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