

Kingtronics®**BR25005W THRU
BR2510W**

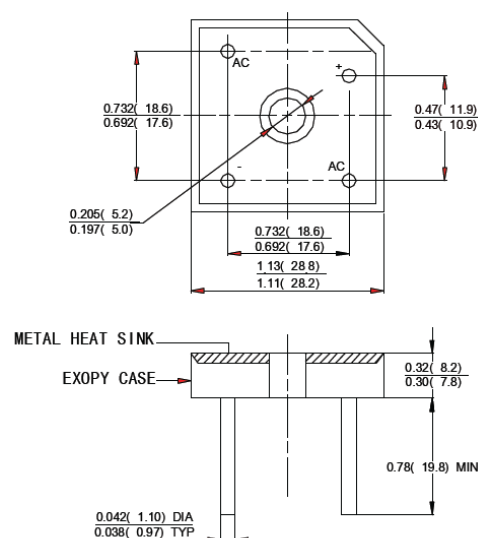
SINGLE-PHASE BRIDGE RECTIFIER
VOLTAGE RANGE 50 to 1000 Volts CURRENT 25.0 Ampere

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

**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%**

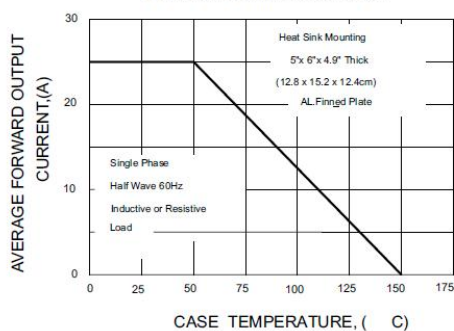
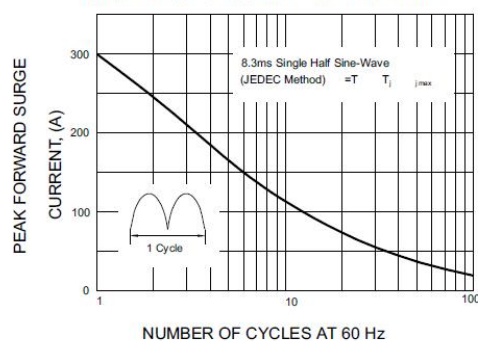
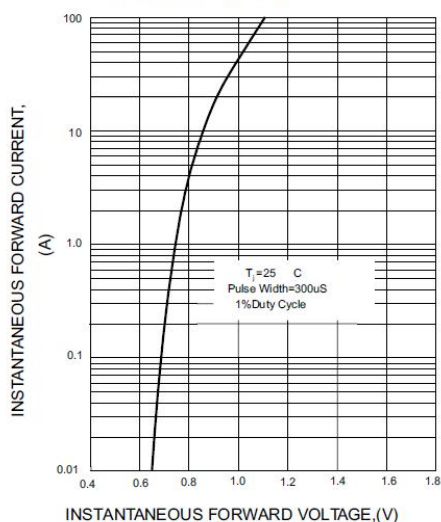
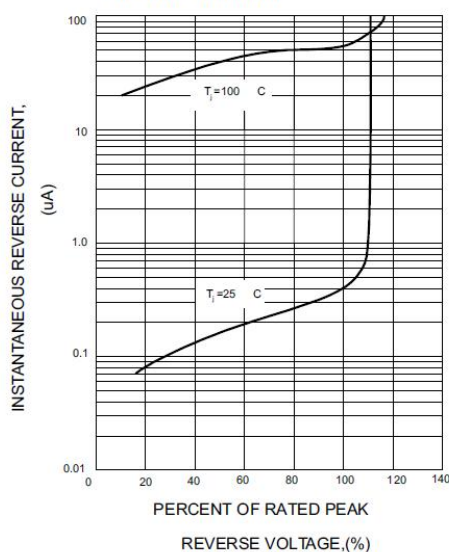
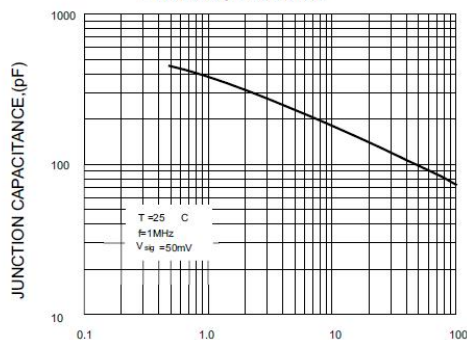
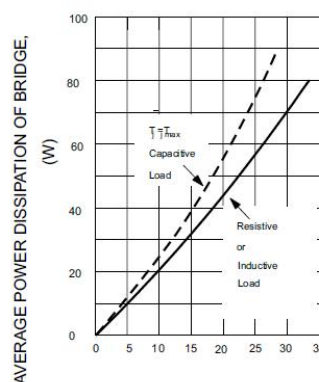
Dimensions in inches and (millimeters)

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 $T_c=55^\circ\text{C}$ (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($t<8.3\text{ms}$)		I_2T	373							A^2s
Maximum Instantaneous Forward Voltage at 12.5A		V_F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	I_R	5.0							μAmps
	$T_A=150^\circ\text{C}$		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							$^\circ\text{C/W}$
Operating Temperature Range		T_J	-65 to +150							$^\circ\text{C}$
Storage Temperature Range		T_{STG}	-65 to +150							$^\circ\text{C}$

1- Unit mounted on 9"×3.5"×4.6" thick (23×9×11.8mm) 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.

Kingtronics® International Company

Kingtronics®**BR25005W THRU
BR2510W****RATINGS AND CHARACTERISTIC CURVES****FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT****FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT****FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT****FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT****FIG.5-TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT****FIG.6-MAXIMUM POWER DISSIPATION**

Note: Specifications are subject to change without notice.

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