

Kingtronics®

KBPC35005W THRU KBPC3510W

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts **FORWARD CURRENT** 35.0 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.

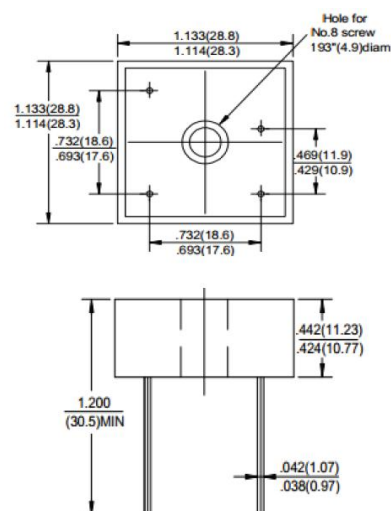
MECHANICAL DATA

- Case: Metal case.
- Terminal: Plated 0.04" (1.02mm) lug.
- Polarity: Polarity symbols marked on case.
- Mounting: Thru hole for #10 screw, 20 in., - lbs. Torque Max.
- Weight: 0.93 ounce, 26.4gram.

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%

KBPC-W



Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	KBPC 35005W	KBPC 3501W	KBPC 3502W	KBPC 3504W	KBPC 3506W	KBPC 3508W	KBPC 3510W	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 $T_c=50^\circ\text{C}$ (Note1, 2)	$I_{(AV)}$	35							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							Amps
Rating for Fusing($t<8.3\text{ms}$)	I^2T	664							A^2s
Maximum Instantaneous Forward Voltage at 17.5A	V_F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	10							μAmps
	$T_A=150^\circ\text{C}$	1.0							mAmps
Isolation Voltage from case to lug	V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)	$R_{\theta JL}$	2.0							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-65 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 to +150							$^\circ\text{C}$

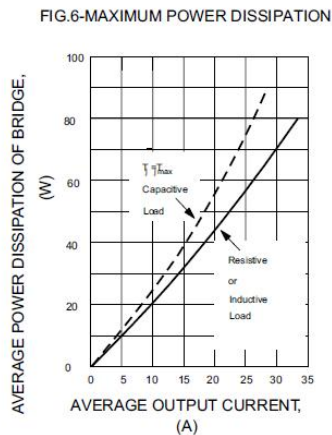
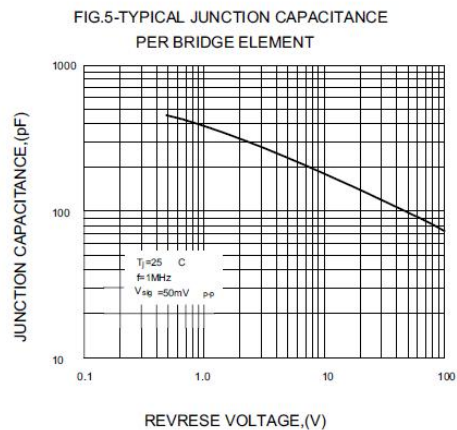
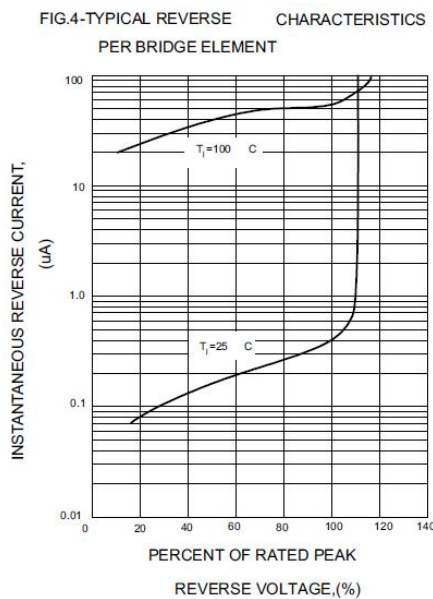
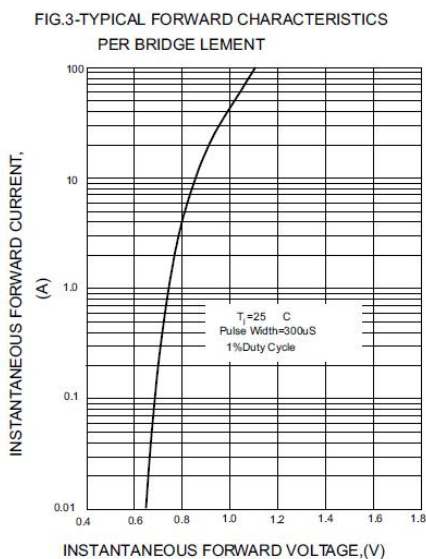
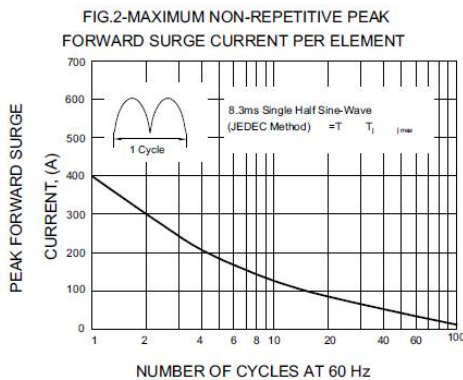
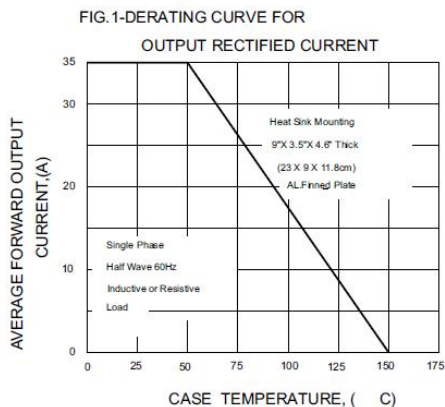
- Unit mounted on 5"x4"x3" thick (12.8 mmx10.2 mmx7.3mm) Al. plate.
- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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