Suntan_® Su_®

KBPC35005W THRU KBPC3510W

SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 35.0 Ampere

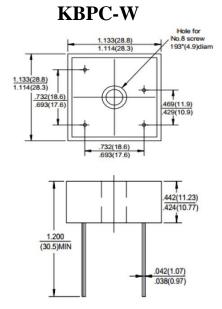
FEATURES

- ♦ 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.



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	KBPC 35005W	KBPC 3501W	KBPC 3502W	KBPC 3504W	KBPC 3506W	KBPC 3508W	KBPC 3510W	UNIT
Maximum Repetitive Peak Revere Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	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=50°C (Note1, 2)		I(AV)	35							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ifsm	400							Amps
Rating for Fusing(t<8.3ms)		I^2T	664							A ² s
Maximum Instantaneous Forward Voltage at17.5A		VF	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	Та=25°С	- Ir	10							μAmps
	TA=150°C		1.0							mAmps
Isolation Voltage from case to lug		V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1,2)		Rojl	2.0							°C/W
Operating Temperature Range		Тл	-65 to +150							°C
Storage Temperature Range		Tstg	-65 to +150							°C

Note: 1.Unit mounted on 5" \times 4" \times 3" thick (12.8 mm \times 10.2 mm \times 7.3mm) Al. plate.

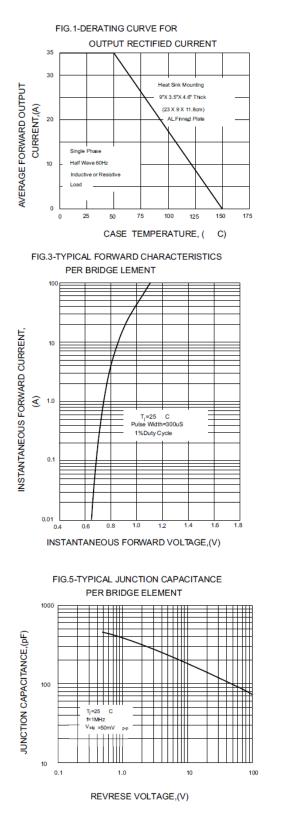
2.Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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RATING AND CHARACTERISTIC CURVES KBPC35005W THRU KBPC3510W



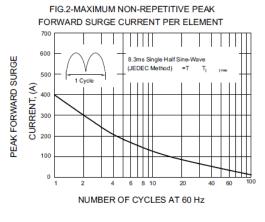


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

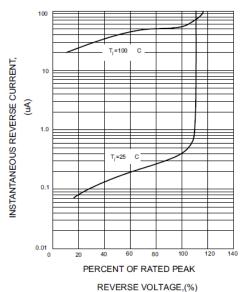
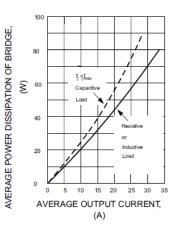


FIG.6-MAXIMUM POWER DISSIPATION



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