

# KBPC25005W THRU KBPC2510W

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

# FEATURES

- ◆High forward surge current capability.
- ◆Low thermal resistance.
- ◆High isolation voltage from case to lugs.
- ◆High temperature soldering guaranteed:

 $260^{\circ}$ C/10 second, at 5 lbs. (2.3kg) tension.

### **Mechanical Data**

◆Case: Metal case.

◆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.

# **KBPC-W** Hole for No.8 screw 193"(4.9)diam (30.5)MIN

**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 25005W	KBPC 2501W	KBPC 2502W	KBPC 2504W	KBPC 2506W	KBPC 2508W	KBPC 2510W	UNIT
Maximum Repetitive Peak Revere Voltage		$V_{\text{RRM}}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		$V_{\text{RMS}}$	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=50°C (Note1, 2)		$I_{(AV)}$	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ifsm	300							Amps
Rating for Fusing(t<8.3ms)		I <sub>2</sub> T	373							$A^2s$
Maximum Instantaneous Forward Voltage at12.5A		$V_{\rm F}$	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	TA=25°C	IR	5.0							μAmps
	Ta=125°C		0.5							mAmps
Isolation Voltage from case to lugs		V <sub>ISO</sub>	2500							$V_{AC}$
Typical Thermal Resistance (Note 1,2)		Røjl	2.0							°C/W
Operating Temperature Range		Τı	-65 to +150							$^{\circ}$
Storage Temperature Range		Tstg	-65 to +150							$^{\circ}$

Note: 1.Unit mounted on 9"  $\times 3.5$ "  $\times 4.6$ " thick ( $23 \times 9 \times 11.8$ mm) Al. finned plate.

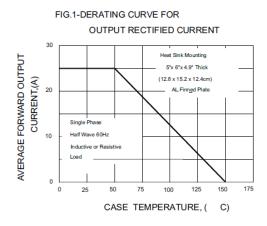
2.Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with

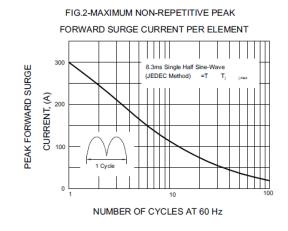


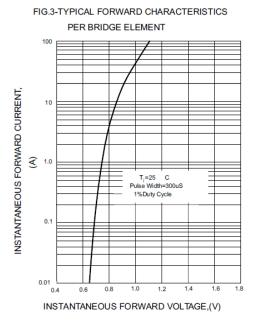
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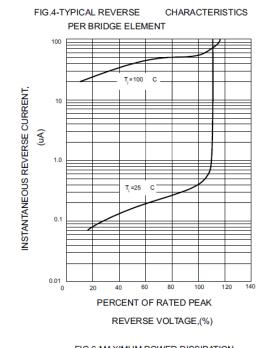
# SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 25.0 Ampere

## RATING AND CHARACTERISTIC CURVES KBPC25005W THRU KBPC2510W









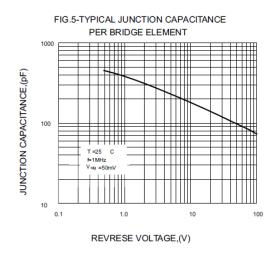
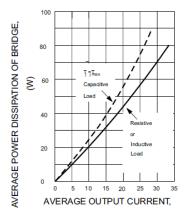


FIG.6-MAXIMUM POWER DISSIPATION



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