

KBPC25005 THRU KBPC2510

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: Metal case.

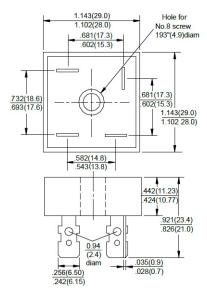
◆Terminal: Plated 0.25" (6.35mm) lug.

◆Polarity: Polarity symbols marked on case.

◆ Mounting: Thru hole for #10 screw, 20 in,- lbs. Torque Max.

◆Weight:1.02 ounce, 29gram.

KBPC



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%

		SYMBOL	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	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		$V_{ m DC}$	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 ₂ T	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°C	Ir	5.0							μAmps
	T _A =125°C		0.5							mAmps
Isolation Voltage from case to lugs		$V_{\rm ISO}$	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)		Rөjc	2.0							°C/W
Operating Temperature Range		Tı	-55 to +150							°C
Storage Temperature Range		$T_{\scriptscriptstyle STG}$	-55 to +150							°C

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

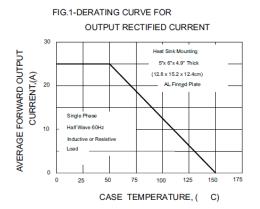
2.Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

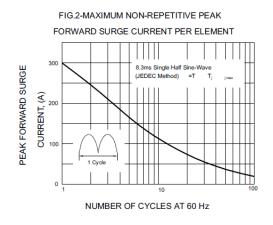


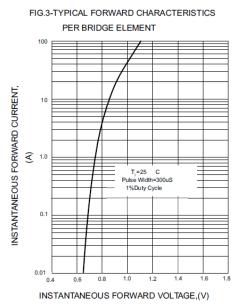
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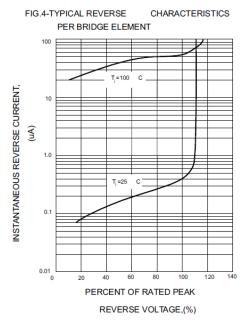
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RATING AND CHARACTERISTIC CURVES KBPC25005 THRU KBPC2510









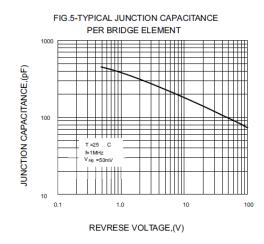
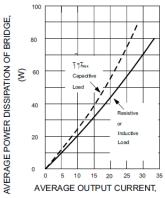


FIG.6-MAXIMUM POWER DISSIPATION



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