

KBPC50005 THRU KBPC5010

SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts **CURRENT 50.0 Ampere**

FEATURES

◆High forward surge current capability

◆Integrally molded heatsink provide

very 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

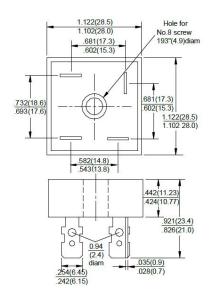
◆Terminal: Plated 0.25" (6.35mm) lug

◆Polarity: Polarity symbols marked on case

◆ Mounting: Thru hole for #8 screw, 20 in,- lbs. Torqute Max

♦ Weight: 1.02 ounce, 29 gram

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 50005	KBPC 5001	KBPC 5002	KBPC 5004	KBPC 5006	KBPC 5008	KBPC 5010	UNIT
V_{RRM}	50	100	200	400	600	800	1000	Volts
V_{RMS}	35	70	140	280	420	560	700	Volts
V _{DC}	50	100	200	400	600	800	1000	Volts
I _(AV)	50						Amps	
I _{FSM}	400						Amps	
I^2t	664						A^2S	
V_{F}	F 1.1							
т.	5.0							μAmps
IR IR	1.0							mAmps
V _{ISO}	2500							V _{AC}
Rөлс	2.0							°C/W
T _J	-55 to +125					$^{\circ}$		
Тѕтс	-55 to +150						$^{\circ}$ C	
	$\begin{array}{c c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{(AV)} \\ \\ I_{FSM} \\ \\ I^2t \\ V_F \\ \\ I_R \\ \\ V_{ISO} \\ \\ R_{\theta JC} \\ \\ T_J \end{array}$	SYMBOL 50005 VRRM 50 VRMS 35 VDC 50 I(AV) IFSM I ² t VF IR VISO Rejc TJ TJ TJ TJ TJ TJ TJ T	SYMBOL 50005 5001	SYMBOL 50005 5001 5002 VRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 ICAV) IFSM IFSM IV IR VISO Rejic TJ -5	SYMBOL 50005 5001 5002 5004 VRMM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 IGAV) 50 50 400 IFSM 400 664 VF 1.1 5.0 IR 1.0 1.0 VISO 2500 2500 RØJC 2.0 -55 to +12:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SYMBOL 50005 5001 5002 5004 5006 5008 VRMM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 IFSM 400 400 664 400 664 400 664 400 664 400 664 <td> SYMBOL S0005 S001 S002 S004 S006 S008 S010 V_{RRM}</td>	SYMBOL S0005 S001 S002 S004 S006 S008 S010 V_{RRM}

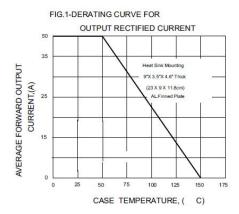
Note: 1. Unit mounted on 9"×3.5"×4.6"(23×9×11.8mm) Al. finned plate.

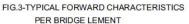
2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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RATING AND CHARACTERISTIC CURVES KBPC50005 THRU KBPC5010





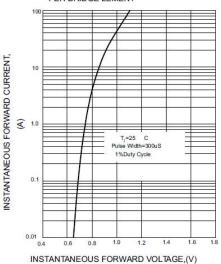
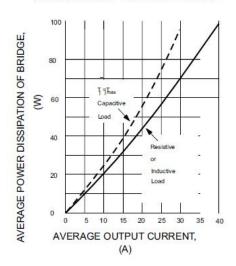
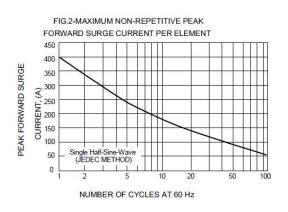
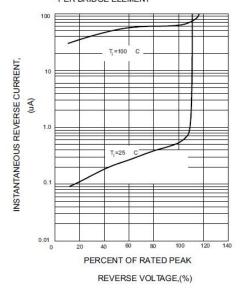


FIG.5-MAXIMUM POWER DISSIPATION









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