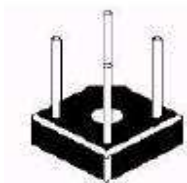


SINGLE PHASE SILICON BRIDGE RECTIFIER

KBPC8005-KBPC810



**KBPC-8
PLASTIC PACKAGE**

Maximum Ratings (Ratings at $T_a=25^\circ\text{C}$ Ambient Temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%)

DESCRIPTION	SYMBOL	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_c=50^\circ\text{C}$	$I_{F(AV)}$	8.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	250							A
Maximum Forward Voltage Drop Per Element at 4A DC and 25°C	V_F	1.0							V
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	10 500							μA μA
Typical Junction Capacitance	$*C_J$	200							pF
Typical Thermal Resistance	$**R_{th(j-a)}$	21							$^\circ\text{C/W}$
Typical Thermal Resistance	$***R_{th(j-c)}$	6.0							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{stg}	- 55 to +125							$^\circ\text{C}$

*Measured at 1MHz and applied reverse voltage of 4.0 VDC

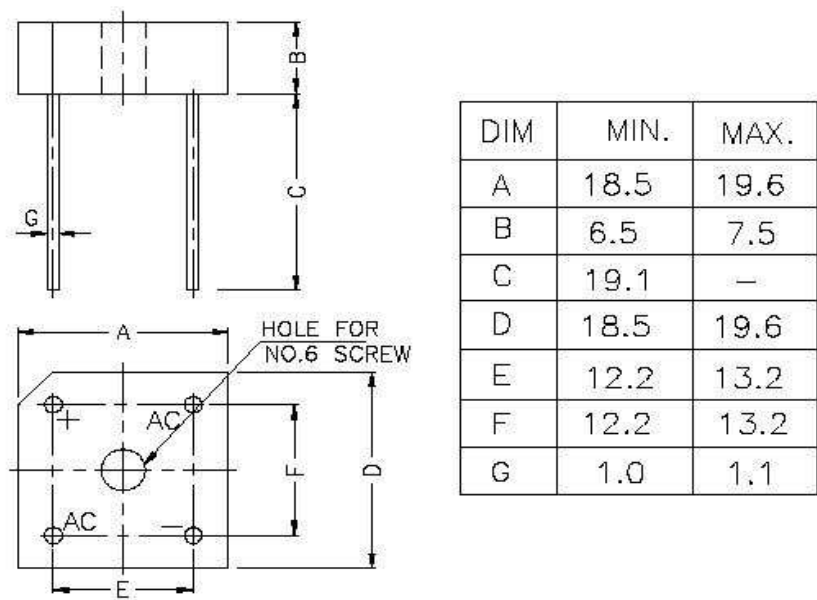
**Unit mounted on 8.6 x 8.6 x 0.24" thick (22 x 22 x 0.6cm) Ai.Plate

***Unit mounted on PCB at 0.375" (9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads

KBPC8005-810Rev280506E

KBPC-8
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PACKAGE KBPC-8



ALL DIMENSIONS ARE mm
50 Pcs/BOX

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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