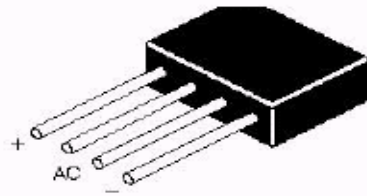


SINGLE PHASE SILICON BRIDGE RECTIFIER

KBP2005 - KBP210



**KBP
PLASTIC PACKAGE**

**Marking: 2KBPXXM
CDIL YYWW
YYWW-Date Code**

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%

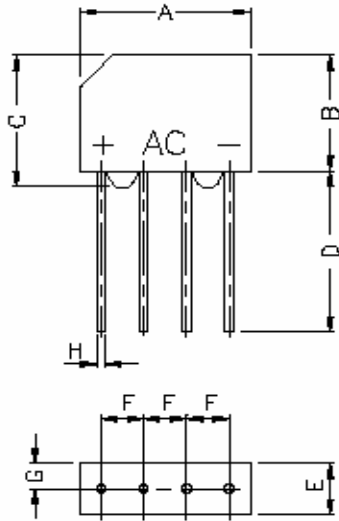
DESCRIPTION	SYMBOL	KBP	KBP	KBP	KBP	KBP	KBP	KBP	UNIT
		2005	201	202	204	206	208	210	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_a=50^{\circ}\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	60							A
Maximum Forward Voltage at 2A at $T_a= 25^{\circ}\text{C}$	V_F	1.1							V
Maximum Reverse Current at $T_a=25^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a=100^{\circ}\text{C}$	I_R	10 500							μA μA
Typical Junction Capacitance	$*C_J$	25							pF
Typical Thermal Resistance	$**R_{th(j-a)}$	30							$^{\circ}\text{C}/\text{W}$
Typical Thermal Resistance	$**R_{th(j-L)}$	11							$^{\circ}\text{C}/\text{W}$
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 V

**Thermal resistance junction to Ambient and from Junction to lead at 0.375" (9.5mm) lead length PCB mounted

KBP2005_210Rev_1 140307E

KBP Plastic Package



DIM	MIN.	MAX.
A	14.22	15.24
B	10.57	11.58
C	13.4	14.4
D	15.2	—
E	4.57	5.08
F	3.6	4.1
G	—	2.67
H	0.76	0.86

All dimensions are in mm

900 Pcs/Bulk Pack

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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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