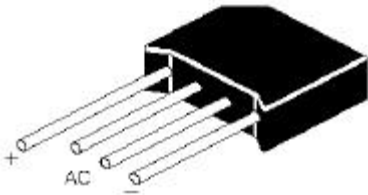


**GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIERS**

**KBL005 - KBL10**

**KBL  
PLASTIC PACKAGE**



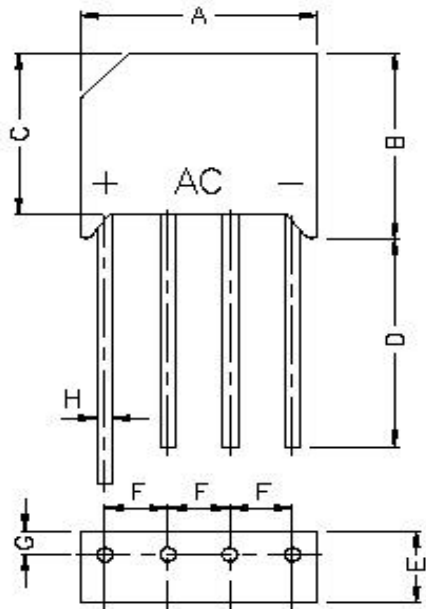
Ratings at  $T_a=25^\circ\text{C}$  Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load. For capacitive load, derate current by 20%

DESCRIPTION	SYMBOL	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10	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 $T_a=50^\circ\text{C}$	$*I_{F(AV)}$	4.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200							A
Maximum Forward Voltage Drop Per Element at 1A	$V_F$	1.0							V
Maximum Reverse Current at $T_a=25^\circ\text{C}$ at Rated DC Blocking Voltage Per Element $T_a=100^\circ\text{C}$	$I_R$	10							$\mu\text{A}$
		1.0							mA
Operating and Storage Junction Temperature Range	$T_j, T_{stg}$	- 55 to +150							$^\circ\text{C}$

\*Mounting Conditions 0.5" Lead Length Maximum

KBL005\_10 Rev141005E

PACKAGE KBL



DIM	MIN.	MAX.
A	18.5	19.5
B	15.2	16.3
C	13.7	14.7
D	19.0	—
E	6.0	6.5
F	4.6	5.6
G	—	2.1
H	∅1.2	∅1.3

All dimensions are in mm

PACKING:— 500 Pcs/REEL

**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 Discrete 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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