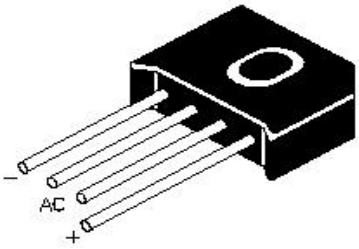
SINGLE PHASE SILICON BRIDGE RECTIFIER

KBU6005 - KBU610



KBU
PLASTIC PACKAGE

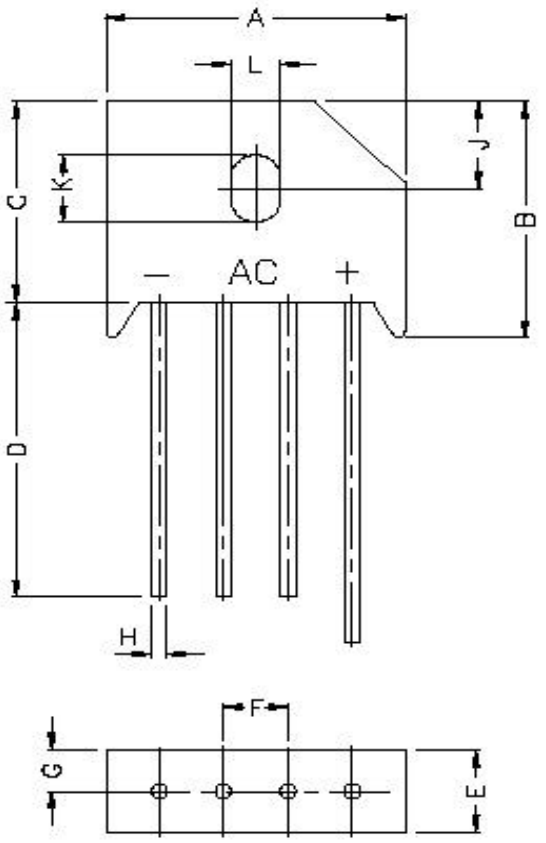
Ratings at T_a=25°C Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

DESCRIPTION	SYMBOL	KBU 6005	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	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 0.375" (9.5mm) Lead Length at T_a=65°C	$I_{F(AV)}$	6.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	200							A
Maximum Forward Voltage at 6A DC at T_a= 25°C	V_F	1.0							V
Maximum Reverse Current at T_a=25°C	I_R	5.0							µA
at Rated DC Blocking Voltage T_a=100°C		500							µA
Typical Thermal Resistance	$*R_{th\ (j-a)}$	8.6							°C/W
Typical Thermal Resistance	$*R_{th\ (j-L)}$	3.1							°C/W
Operating and Storage Temperature Range	T_J, T_{stg}	- 55 to +125							°C

***Thermal resistance junction to Ambient with units in free air, PCB mounted on "0.5 x 0.5" (12 x 12mm) copper pads, 0.375"(9.5mm) lead length**

KBU6005_610Rev091205E

PACKAGE KBU



DIM	MIN.	MAX.
A	22.7	23.7
B	18.8	19.8
C	16.8	17.8
D	25.4	–
E	6.8	7.1
F	4.6	5.6
G	–	3.5
H	1.2	1.3
J	–	7.5
K	–	5.7
L	–	ø3.8

All dimensions are in mm

PACKING:– 400 Pcs./Poly Bag

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 suite 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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notice

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Continental Device India Limited
C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119
email@cdil.com www.cdilsemi.com