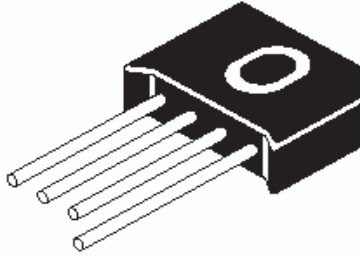


SINGLE PHASE SILICON BRIDGE RECTIFIER

KBU8005 - KBU810



KBU
Leaded Plastic Package

ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

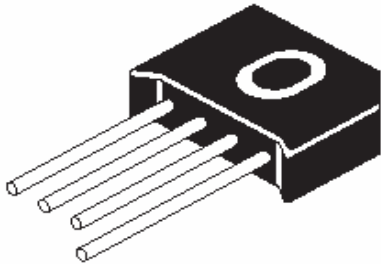
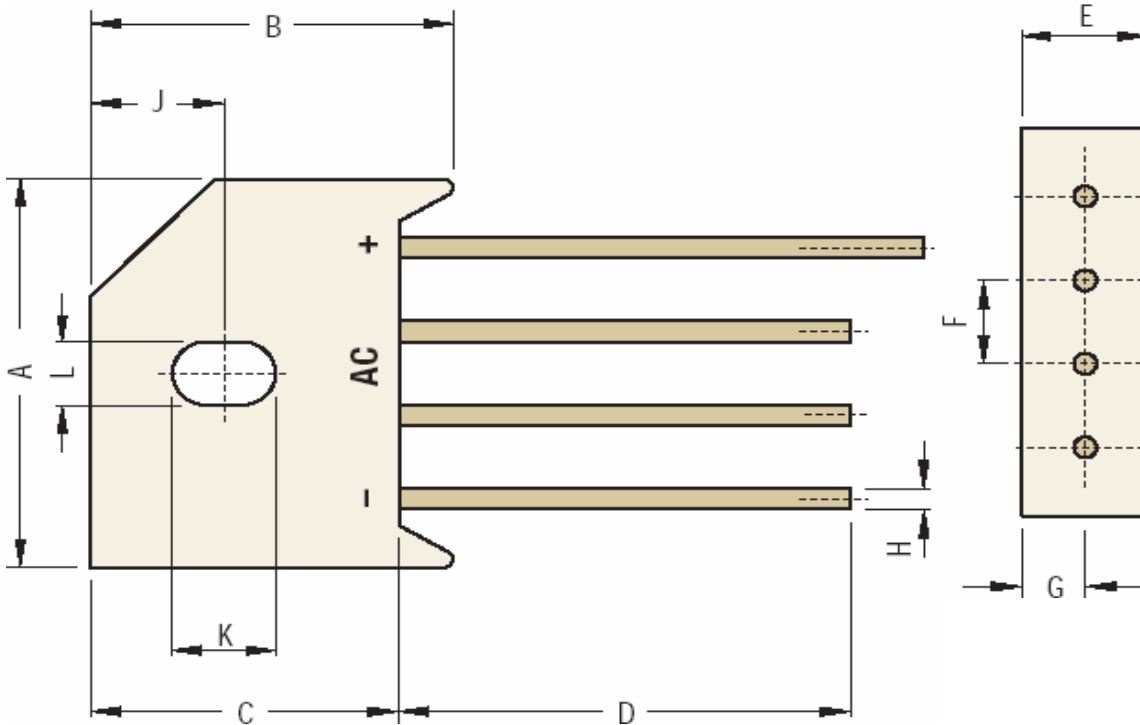
DESCRIPTION	SYMBOLS	VALUE							UNIT
		KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_a=55^\circ\text{C}$	$I_{(AV)}$	8.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300							A
Maximum Forward Voltage at 8.0A DC and 25°C	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking V_{tg} at $T_a = 25^\circ\text{C}$	I_R	10							μA
at $T_a = 100^\circ\text{C}$		500							
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	18							$^\circ\text{C/W}$
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3.0							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to +125							$^\circ\text{C}$

NOTES:

- Unit mounted in free air, no heatsink, PCB at 0.375" (9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads.
- Unit mounted on 3.0" x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3cm) Al plate heatsink.

KBU8005_ 810Rev300306D

KBU Leaded Plastic Package



DIM	Min	Max
A	22.70	23.70
B	18.80	19.80
C	16.80	17.80
D	25.40	
E	6.80	7.10
F	4.60	5.60

DIM	Min	Max
G		3.50
H	1.20	1.30
J		7.50
K		5.70
L		3.80

All Dimensions are in mm

Packaging Information

Package/ Case Type	Packaging Type	Std. Packing Qty
KBU	Bulk	400

Bulk: Lose in Poly bags

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).

KBU8005_810Rev300306D

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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