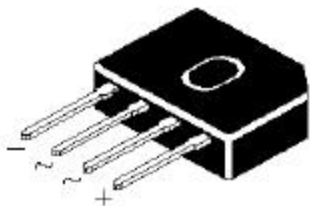


GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIERS

GBU8005 - GBU810

**GBU
PLASTIC PACKAGE**



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

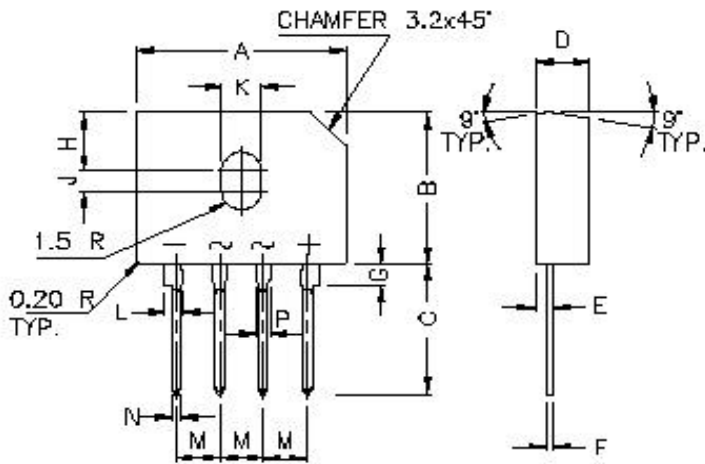
DESCRIPTION	SYMBOL	GBU	GBU	GBU	GBU	GBU	GBU	GBU	UNIT
		8005	801	802	804	806	808	810	
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heat sink) **	$I_{(AV)}$	8.0							A
Rectified output Current at $T_c=100^\circ\text{C}$ (without heatsink)		3.2							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200							A
Maximum Forward Voltage at $I_F=4.0\text{A}$	V_F	1.0							V
Maximum DC Reverse Current at $T_j=25^\circ\text{C}$ at Rated DC Blocking Voltage Per Element at $T_j=125^\circ\text{C}$	I_R	5.0							μA
		500							μA
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	166							A^2sec
Typical Junction Capacitance Per Element	$*C_J$	60							pF
Typical Thermal Resistance Junction to Case	$**R_{th(j-c)}$	2.2							$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	- 55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150							$^\circ\text{C}$

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

**Device mounted on 100mm x 100mm x 1.6mm Cu plate heatsink

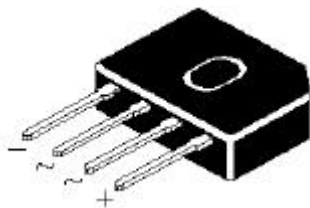
GBU8005_810Rev031005E

GBU Plastic Package



DIM	MIN.	MAX.
A	21.8	22.3
B	18.3	18.8
C	17.27	18.29
D	3.8	4.7
E	1.14	1.52
F	0.46	0.56
G	1.52	2.03
H	7.4	7.9
J	1.65	2.16
K	3.5	4.1
L	2.16	2.54
M	4.83	5.33
N	1.02	1.27
P	1.65	2.03

All dimensions are in mm
 50 Pcs/BOX
 1000 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).

Customer Notes

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).

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