



CBRHD SERIES
SURFACE MOUNT
HIGH DENSITY
0.5 AMP
SILICON BRIDGE RECTIFIER



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRHD series types are silicon full wave bridge rectifiers mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.



MARKING CODES:

CBRHD-02: CBD2 CBRHD-04: CBD4
CBRHD-06: CBD6 CBRHD-10: CBD10

- This series is UL listed: file number E130224
- Device is **Halogen Free** by design

FEATURES:

- Efficient use of board space: requires only 42mm² of board space vs. 120mm² of board space needed for industry standard 1.0 Amp surface mount bridge rectifier.
- 50% higher density (Amps/mm²) than the industry standard 1.0 Amp surface mount bridge rectifier.
- Glass passivated chips for high reliability.

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)	SYMBOL	CBRHD				UNITS
		-02	-04	-06	-10 *	
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	1000	V
DC Blocking Voltage	V _R	200	400	600	1000	V
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	700	V
Average Forward Current (T _A =40°C) (Note 1)	I _O			0.5		A
Average Forward Current (T _A =40°C) (Note 2)	I _O			0.8		A
Peak Forward Surge Current	I _{FSM}			30		A
Operating & Storage Junction Temperature	T _J , T _{stg}			-65 to +150		°C

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}		5.0	μA
I _R	V _R =Rated V _{RRM} , T _A =125°C		500	μA
V _F	I _F =400mA		1.0	V
C _J	V _R =4.0V, f=1.0MHz	20		pF

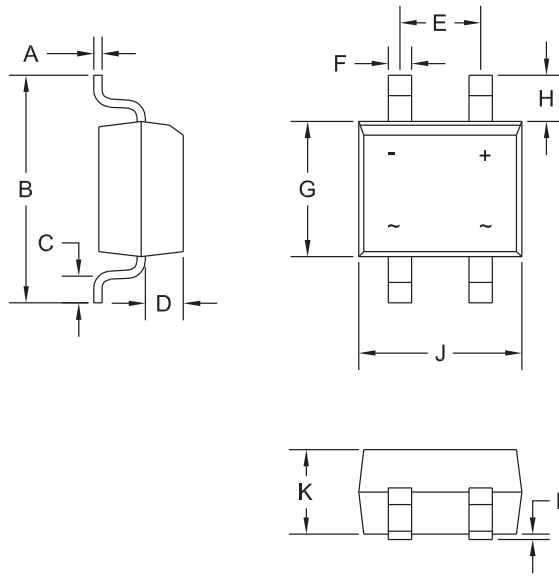
Notes: (1) Mounted on Glass-Epoxy PCB.
(2) Mounted on Ceramic PCB.

* Available on special order, please consult factory.

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HD DIP CASE - MECHANICAL OUTLINE



R2

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DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.006	0.014	0.15	0.35
B	-	0.275	-	7.00
C	0.027	0.043	0.70	1.10
D	0.035	0.051	0.90	1.30
E	0.090	0.106	2.30	2.70
F	0.019	0.031	0.50	0.80
G	0.150	0.165	3.80	4.20
H	0.051	0.067	1.30	1.70
J	0.177	0.193	4.50	4.90
K	0.090	0.106	2.30	2.70
L	0.000	0.008	0.00	0.20

HD DIP (REV: R2)

R4 (14-December 2011)

Mouser Electronics

Authorized Distributor

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