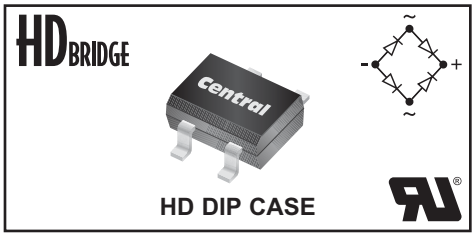
CBRHD SERIES

SURFACE MOUNT
HIGH DENSITY
0.5 AMP
SILICON BRIDGE RECTIFIER



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

Central Semiconductor Corp.
www.centralsemi.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**

FEATURES:

- Efficient use of board space: requires only 42mm^2 of board space vs. 120mm^2 of board space needed for industry standard 1.0 Amp surface mount bridge rectifier.
- 50% higher density (Amps/mm^2) 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 -02**	**CBRHD -04**	**CBRHD -06**	**CBRHD -10 ***	**UNITS**
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.

R4 (14-December 2011)

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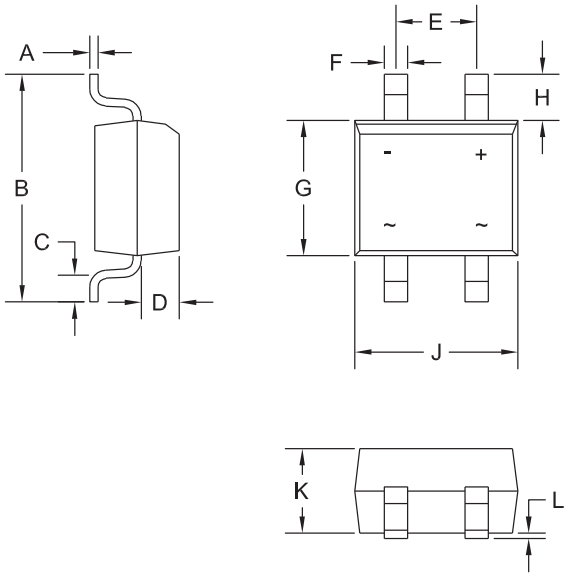
HD DIP CASE - MECHANICAL OUTLINE



R2

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

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)