

CBRHD SERIES
SURFACE MOUNT SILICON
HIGH DENSITY
0.5 AMP
BRIDGE RECTIFIER



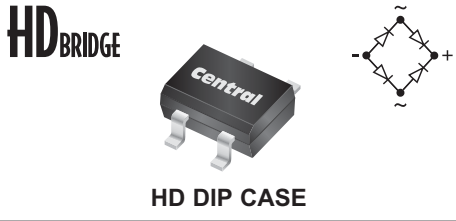
www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRHD series devices 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



HD DIP CASE

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)

		CBRHD				
	SYMBOL	-02	-04	-06	-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.

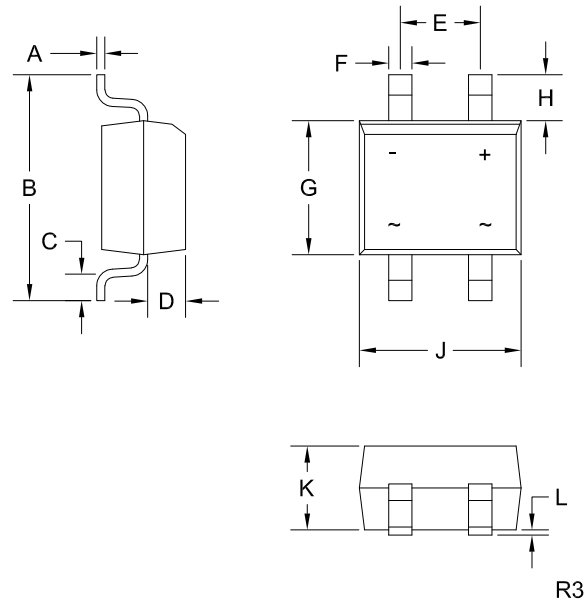
* Available on special order, please consult factory.

R6 (19-August 2020)

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HD DIP CASE - MECHANICAL OUTLINE



R3

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

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	0.146	0.165	3.70	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: R3)

R6 (19-August 2020)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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