Silicon Bridge Rectifier

CBRHD-06

600V / 0,5A

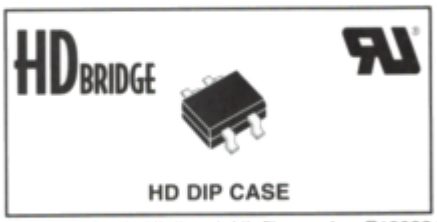
DATASHEET

OEM – Central Semiconductor Corp.

Source: Central Databook 2004

CBRHD SERIES

HIGH DENSITY
½ AMP DUAL IN LINE
BRIDGE RECTIFIER



HD DIP CASE

• This series is UL listed, UL file number E130224

Central™
Semiconductor Corp.

FEATURES:

- Truly efficient use of board space, requires only 42mm² of board space vs. 120mm² of board space 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.

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**

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)(1)	I_O		0.5			A
Average Forward Current (T_A=40°C)(2)	I_O		0.8			A
Peak Forward Surge Current	I_{FSM}		30			A
Operating and 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	MIN	TYP	MAX	UNITS
V_F	I_F=400mA			1.0	V
I_R	V_R=Rated V_{RRM}			5.0	μA
I_R	V_R=Rated V_{RRM}, T_A=125°C			500	μA
C_J	V_R=4.0V, f=1.0MHz		20		pF

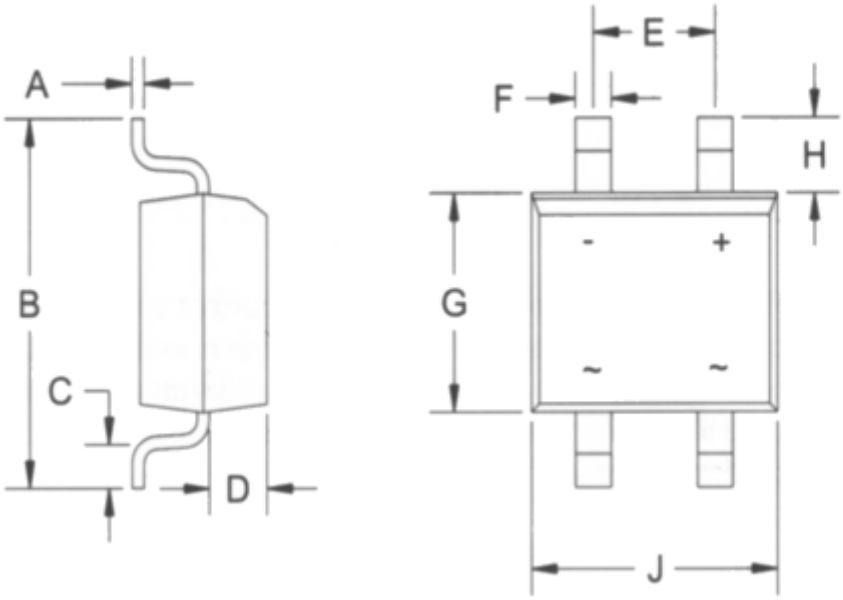
(1) Mounted on a Glass-Epoxy P.C.B.
(2) Mounted on a Ceramic P.C.B.

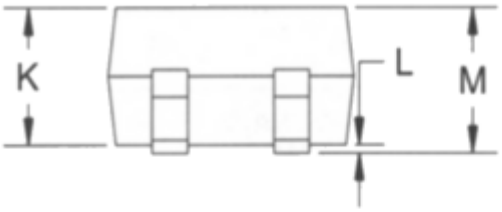
* Available on special order, please consult factory.

For Typical Electrical Characteristic Data for this device, please see Process CPD04 on page 874.

R1 (26-September 2002)

HD DIP CASE - MECHANICAL OUTLINE





R1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.006	0.014	0.15	0.35
B	-	0.276	-	7.00
C	0.028	0.043	0.70	1.10
D	0.035	0.051	0.90	1.30
E	0.091	0.106	2.30	2.70
F	0.020	0.031	0.50	0.80
G	0.142	0.157	3.60	4.00
H	0.051	0.067	1.30	1.70
J	0.177	0.193	4.50	4.90
K	0.091	0.106	2.30	2.70
L	-	0.008	-	0.20
M	-	0.118	-	3.00

HD DIP (REV: R1)