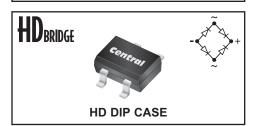
CBRHD-01

SURFACE MOUNT SILICON HIGH DENSITY 0.8 AMP BRIDGE RECTIFIER





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRHD-01 is a silicon full wave bridge rectifier mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.

MARKING CODE: CBD1

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		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
DC Blocking Voltage	v_R	100	V
RMS Reverse Voltage	V _{R(RMS)}	70	V
Average Forward Current (T _A =40°C) (Note1)	IO	0.5	Α
Average Forward Current (T _A =40°C) (Note 2)	IO	0.8	Α
Peak Forward Surge Current	IFSM	30	Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance (Note 3)	$\Theta_{\sf JA}$	85	°C/W

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R = 100V		5.0	μΑ
I_{R}	V _R = 100V, T _A =125°C		500	μΑ
V_{F}	I _F =400mA		1.0	V
C _{.1}	V _R =4.0V, f=1.0MHz	9.0		pF

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

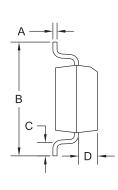
- (2) Mounted on Ceramic PCB.
- (3) Mounted on PCB with 0.5" x 0.5" copper pads.

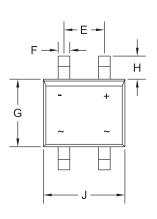
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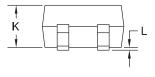
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HD DIP CASE - MECHANICAL OUTLINE







R2

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.006	0.014	0.15	0.35			
В	ı	0.275	-	7.00			
С	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			
Н	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)

MARKING CODE: CBD1

R3 (22-August 2016)

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

CONTACT US

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