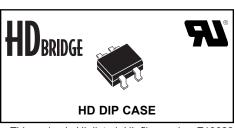
CBRHD-01

HIGH DENSITY 0.8 AMP DUAL IN LINE BRIDGE RECTIFIER



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

MARKING CODE: CBRHD-01: CBD1

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)(1) | Ìο | 0.5 | Α |
| Average Forward Current (T _A =40°C)(2) | IO | 0.8 | Α |
| Peak Forward Surge Current | I _{FSM} | 30 | Α |
| Operating and Storage | | | |
| Junction Temperature | T_J, T_stg | -65 to +150 | °C |
| Thermal Resistance (3) | ΘιΔ | 85 | °C/W |

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

| SYMBOL | TEST CONDITIONS | MIN | 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 |
| Ст | Vp=4.0V, f=1.0MHz | | 9.0 | | pF |

- (1) Mounted on a Glass-Epoxy P.C.B.
- (2) Mounted on a Ceramic P.C.B.
- (3) Mounted on P.C.B. with 0.5" x 0.5" copper pads.

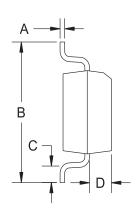
R0 (11-February 2005)

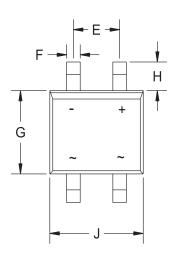


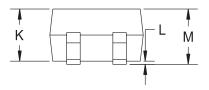
CBRHD-01

HIGH DENSITY 0.8 AMP DUAL IN LINE BRIDGE RECTIFIER

HD DIP CASE - MECHANICAL OUTLINE







R1

MARKING CODE: CBRHD01: CBD1

| DIMENSIONS | | | | | | | |
|------------|--------|-------|-------------|------|--|--|--|
| | INCHES | | MILLIMETERS | | | | |
| SYMBOL | MIN | MAX | MIN | MAX | | | |
| Α | 0.006 | 0.014 | 0.15 | 0.35 | | | |
| В | - | 0.276 | - | 7.00 | | | |
| С | 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 | | | |
| Н | 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)

R0 (11-February 2005)