

**CBRLD1-02** | **CBRLD1-08**  
**CBRLD1-04** | **CBRLD1-10**  
**CBRLD1-06**



## 1.0A, 200V thru 1000V Bridge Rectifiers in the LPDIP package

Central Semiconductor's CBRLD1 series is a family of full-wave bridge rectifiers ideally suited for full-wave rectification applications where high voltage capability, high power density, and low package profile are critical design elements.

### Features:

- Low profile package
- High reverse voltage
- Low reverse leakage current
- Glass passivated silicon die

### Applications:

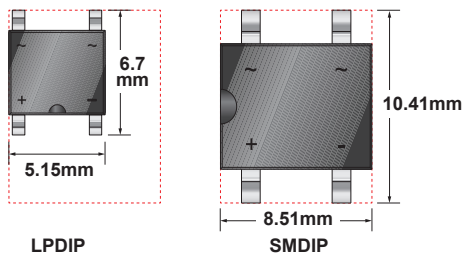
- Input rectification for Solid State Lighting
- Steering diode array
- General purpose full-wave rectification

### Benefits:

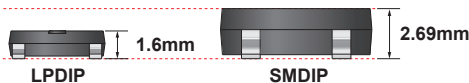
- High power density
- Space saving package with small footprint and very low profile

### Package Profile Comparison:

The LPDIP utilizes **61%** less board space than the SMDIP

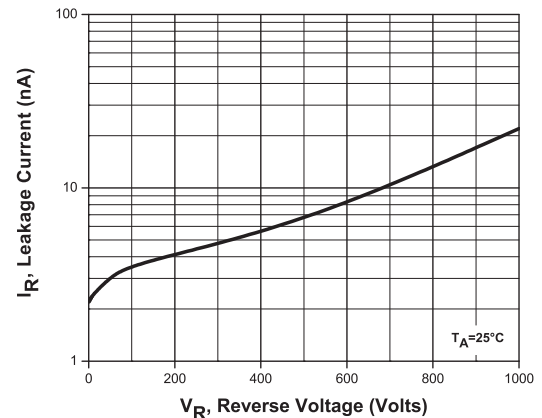


The LPDIP has a **41%** lower profile than the SMDIP



### Typical Electrical Characteristics

CBRLD1-10 Typical Reverse Leakage Characteristics



### Samples



To request samples visit:  
[www.centrasemi.com/info/CBRLD1](http://www.centrasemi.com/info/CBRLD1)

### Weblink

Use QR reader for direct link to product web page.

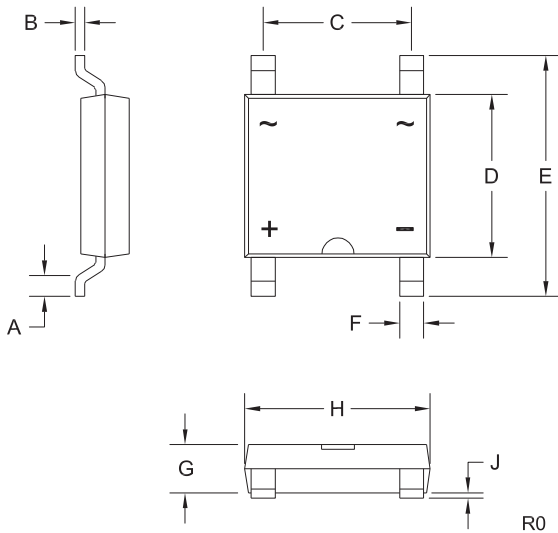


Part Number	Maximum Ratings (T <sub>A</sub> = 25°C)				Electrical Characteristics (T <sub>A</sub> = 25°C unless otherwise noted)			
	V <sub>RRM</sub>	I <sub>O</sub>	T <sub>J</sub> , T <sub>stg</sub>	Θ <sub>JA</sub>	V <sub>F</sub>	@ I <sub>F</sub>	I <sub>R</sub>	@ V <sub>RRM</sub>
	(V) MAX	(A) MAX	(°C) MAX	(°C/W) MAX	(V) MAX	(A)	(μA) MAX	(V)
CBRLD1-02	200	1.0	-55 to +150	95	1.0	1.0	10	200
CBRLD1-04	400	1.0	-55 to +150	95	1.0	1.0	10	400
CBRLD1-06	600	1.0	-55 to +150	95	1.0	1.0	10	600
CBRLD1-08	800	1.0	-55 to +150	95	1.0	1.0	10	800
CBRLD1-10	1000	1.0	-55 to +150	95	1.0	1.0	10	1000

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**1.0A, 200V thru 1000V**  
**Bridge Rectifiers**  
**in the LPDIP package**

**Mechanical Drawing - LPDIP**



SYMBOL	DIMENSIONS		DIMENSIONS	
	INCHES		MILLIMETERS	
A	0.019	0.028	0.50	0.70
B	0.007	0.012	0.20	0.30
C	0.153	0.162	3.90	4.10
D	0.167	0.179	4.25	4.55
E	0.248	0.264	6.30	6.70
F	0.023	0.028	0.60	0.70
G	0.045	0.058	1.15	1.45
H	0.190	0.203	4.85	5.15
J	0.002	0.006	0.05	0.15

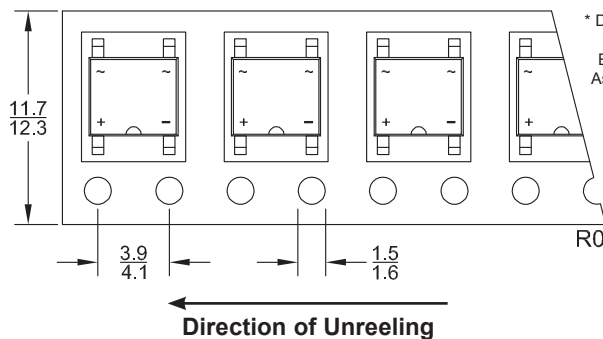
LPDIP (REV: R0)

**MARKING CODES**

**CBRLD1-02: CBL2**  
**CBRLD1-04: CBL4**  
**CBRLD1-06: CBL6**  
**CBRLD1-08: CBL8**  
**CBRLD1-10: CBL10**

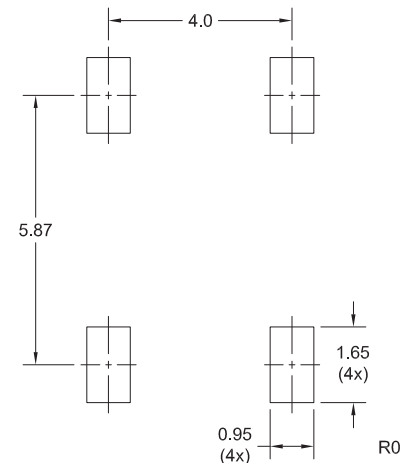
**Tape Dimensions and Device Orientation (Dimensions in mm)**

Tape Width: 12mm



\* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-D

**Mounting Pad Geometry (Dimensions in mm)**



**Literature**



New SMD SELECTION GUIDE

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**Packaging Base / Ordering Information**

Reel Size	Quantity	Central Item No.
13"	4,000	CBRLD1-02 TR13
		CBRLD1-04 TR13
		CBRLD1-06 TR13
		CBRLD1-08 TR13
		CBRLD1-10 TR13

Sample devices available upon request. To order samples visit: [www.centrasemi.com/info/CBRLD1](http://www.centrasemi.com/info/CBRLD1)



**Innovative Discrete Semiconductors**

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 Sales at Central Semiconductor Corp.  
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