

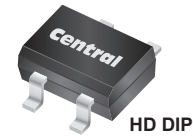
# PRODUCT BRIEF



**CBRHDSH1-40L | CBRHDSH1-100**  
**CBRHDSH1-60 | CBRHDSH1-200**



## 1.0A, 40V thru 200V Schottky Bridge Rectifier in the HD DIP package



Central Semiconductor's CBRHDSH1 series of full wave bridge rectifiers offer a broad selection of voltages, including the new 200V CBRHDSH1-200. These devices are designed for high voltage rectification applications where energy efficiency is a key design requirement.

### Features:

- Low forward voltage
- Low leakage current
- High current rating
- High voltage rating

### Applications:

- Input rectification for LED lighting
- Power over ethernet (PoE) peripherals
- General purpose full wave rectification

### Benefits:

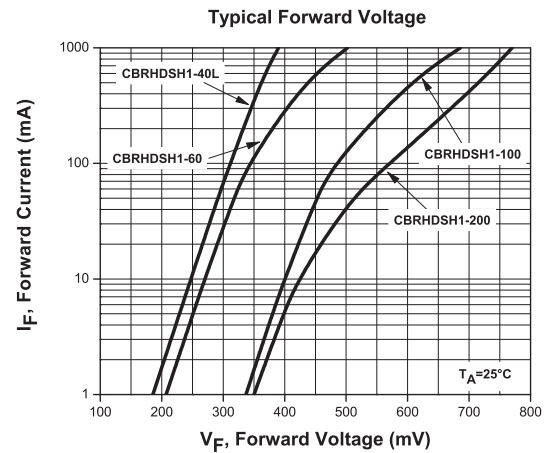
- Energy efficiency
- Low total conduction losses
- Industry standard package/footprint

weblink scan

Use QR reader for direct link to product web page.



### Typical Electrical Characteristics



### Samples



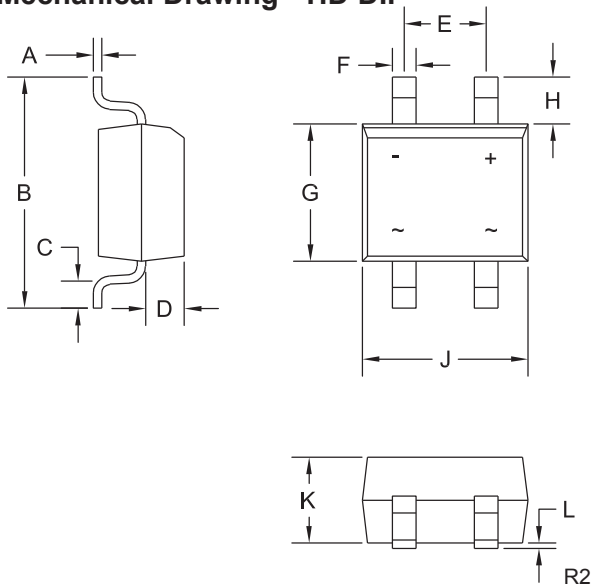
To order samples of this device visit:  
[www.centralsemi.com/info/CBRHDSH1](http://www.centralsemi.com/info/CBRHDSH1)

	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>R</sub>
	(V) MAX	(A) MAX	(°C) MAX	(°C) MAX	(°C/W) MAX	(V) TYP	(V) MAX	(A)	*T <sub>A</sub> = 100°C (µA) TYP	(µA) MAX	(V)
CBRHDSH1-40L	40	1.2	-50 to +125	-50 to +150	85	0.36 0.39	0.38 0.44	0.5 1.0	20 *5.0mA	50 *20mA	40 40
CBRHDSH1-60	60	1.0	-50 to +125	-50 to +150	85	0.43 0.5	0.5 0.6	0.5 1.0	7.0 *2.0mA	20 *10mA	60 60
CBRHDSH1-100	100	1.0	-50 to +125	-50 to +150	85	0.65 0.7	0.7 0.75	0.5 1.0	0.04 -	10 *20mA	100 100
CBRHDSH1-200	200	1.0	-50 to +125	-50 to +150	85	0.76	0.9	1.0	0.2 -	50 *20mA	200 200

**CBRHDSH1-40L | CBRHDSH1-100**  
**CBRHDSH1-60 | CBRHDSH1-200**

**1.0A, 40V thru 200V**  
**Schottky Bridge Rectifier**  
**in the HD DIP package**

**Mechanical Drawing - HD DIP**



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	0.150	0.165	3.80	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

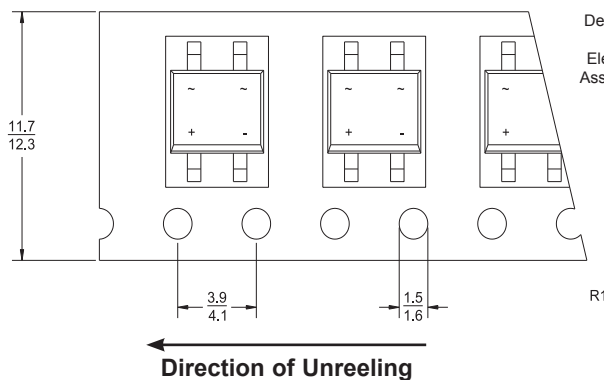
HD DIP (REV: R2)

**Part Marking**

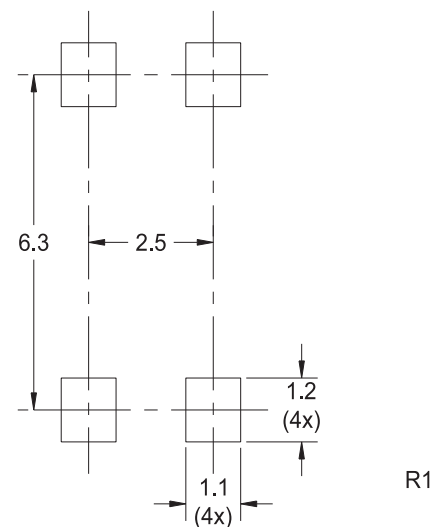
DEVICE	MARKING CODE
CBRHDSH1-40L	CSH1
CBRHDSH1-60	CSH106
CBRHDSH1-100	CSH110
CBRHDSH1-200	CSH120

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

Tape Width: 12mm



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



**Packaging Base / Ordering Information**

Reel Size	Quantity	Central Item No.
13"	3,000	CBRHDSH1-40L TR13
		CBRHDSH1-60 TR13
		CBRHDSH1-100 TR13
		CBRHDSH1-200 TR13

**Reel Packing Information**

Reel Size	Reels per Box (Max)	Parts per Box (Max)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
13"	2	6,000	15x2x15	39x5x39	4	2
	5	15,000	15x4x15	39x11x39	9	4
	14	42,000	15x15x9	39x39x23	25	12
	26	78,000	15x15x18	39x39x46	46	21

Sample devices available upon request. To order samples of this device visit: [www.centrasemi.com/info/CBRHDSH1](http://www.centrasemi.com/info/CBRHDSH1)



**Innovative Discrete Semiconductors**

For further information contact:  
 Sales at Central Semiconductor Corp.  
 (631) 435-1110 or visit:  
[www.centrasemi.com](http://www.centrasemi.com)