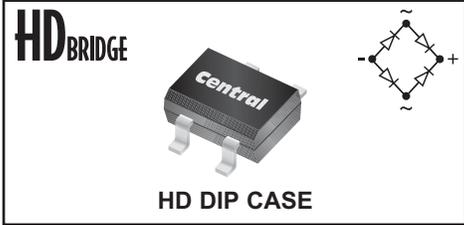


**CBRHDSH1-200**  
**SURFACE MOUNT**  
**HIGH DENSITY**  
**1 AMP SILICON**  
**SCHOTTKY BRIDGE RECTIFIER**



[www.centrasemi.com](http://www.centrasemi.com)



**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBRHDSH1-200 is a full wave bridge rectifier in a durable surface mount epoxy molded case, designed for high voltage full wave rectification applications. The molding compound used in this device has UL flammability classification 94V-O.

**MARKING CODE: CSH120**

**FEATURES:**

- Low forward voltage (0.76V TYP @ 1.0A)
- Low leakage current (0.2μA TYP @ 200V)
- High current rating: 1.0A
- High voltage rating: 200V

**APPLICATIONS:**

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

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>R</sub> RM	200	V
DC Blocking Voltage	V <sub>R</sub>	200	V
RMS Reverse Voltage	V <sub>R</sub> (RMS)	140	V
Average Forward Current	I <sub>O</sub>	1.0	A
Peak Forward Surge Current	I <sub>FSM</sub>	20	A
Power Dissipation	P <sub>D</sub>	1.2	W
Operating Junction Temperature	T <sub>J</sub>	-50 to +125	°C
Storage Temperature	T <sub>stg</sub>	-50 to +150	°C
Thermal Resistance	θ <sub>JA</sub>	85	°C/W

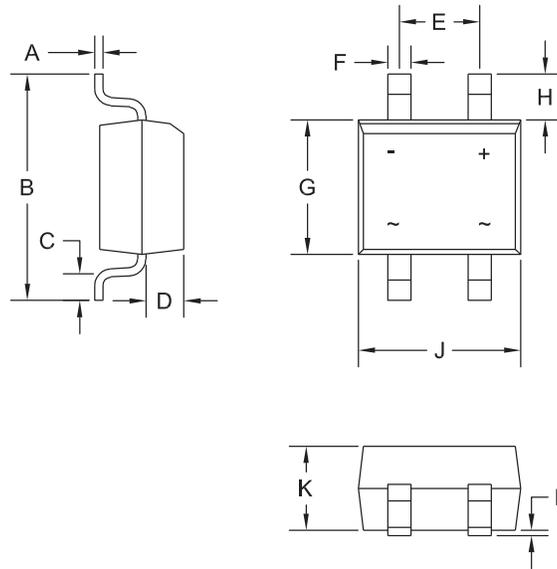
**ELECTRICAL CHARACTERISTICS PER DIODE:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =200V		0.2	50	μA
I <sub>R</sub>	V <sub>R</sub> =200V, T <sub>A</sub> =100°C			20	mA
BV <sub>R</sub>	I <sub>R</sub> =100μA	200	220		V
V <sub>F</sub>	I <sub>F</sub> =1.0A		760	900	mV

CBRHDSH1-200  
 SURFACE MOUNT  
 HIGH DENSITY  
 1 AMP SILICON  
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HD DIP CASE - MECHANICAL OUTLINE



R2

DIMENSIONS				
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)

MARKING CODE: CSH120

R1 (5-January 2012)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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

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### CONTACT US

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