

CBRHDSH1-100
SURFACE MOUNT
HIGH DENSITY
1 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER



www.centrasemi.com

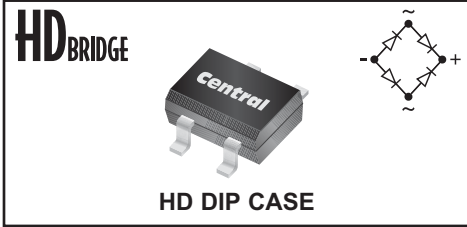
DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRHDSH1-100 is a full wave bridge rectifier in a durable epoxy surface mount molded case, designed for low voltage full wave rectification applications. The molding compound used in this device has UL flammability classification 94V-O.

MARKING CODE: CSH110

FEATURES:

- Low Leakage Current (40nA TYP @ V_{RRM})
- Low Forward Voltage Drop Schottky Diodes
- High 1.0A Current Rating



MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

| | SYMBOL | | UNITS |
|---------------------------------|---------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 100 | V |
| DC Blocking Voltage | V_R | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 71 | V |
| Average Forward Current | I_O | 1.0 | A |
| Peak Forward Surge Current | I_{FSM} | 20 | A |
| Power Dissipation | P_D | 1.2 | W |
| Operating Junction Temperature | T_J | -50 to +125 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |
| Thermal Resistance | Θ_{JA} | 85 | $^\circ\text{C/W}$ |

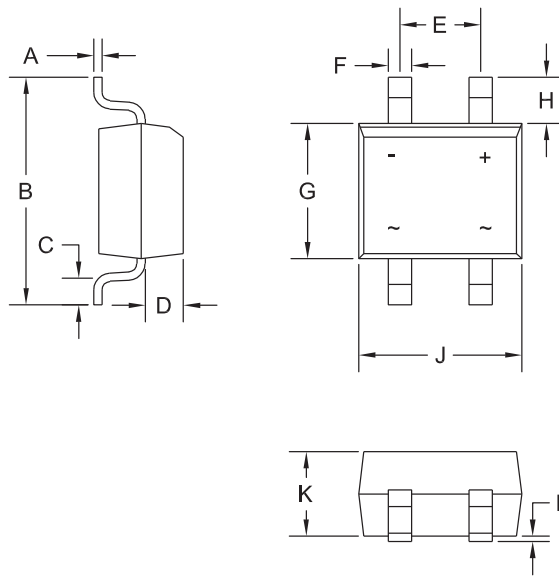
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|--------|--|-----|------|-----|---------------|
| I_R | $V_R=100\text{V}$ | | 0.04 | 10 | μA |
| I_R | $V_R=100\text{V}, T_A=50^\circ\text{C}$ | | | 1.0 | mA |
| I_R | $V_R=100\text{V}, T_A=100^\circ\text{C}$ | | | 20 | mA |
| BV_R | $I_R=150\mu\text{A}$ | 100 | | | V |
| V_F | $I_F=500\text{mA}$ | | 615 | 700 | mV |
| V_F | $I_F=1.0\text{A}$ | | 690 | 750 | mV |
| C_J | $V_R=4.0\text{V}, f=1.0\text{MHz}$ | | 230 | | pF |

CBRHDSH1-100
 SURFACE MOUNT
 HIGH DENSITY
 1 AMP SILICON
 SCHOTTKY BRIDGE RECTIFIER



HD DIP CASE - MECHANICAL OUTLINE



R2

| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|------|
| | 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: CSH110

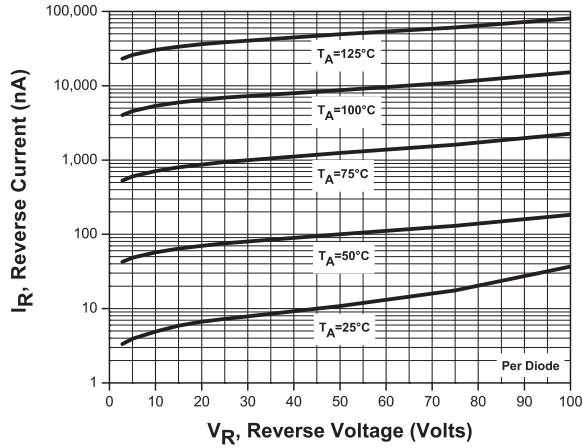
R6 (22-May 2012)

CBRHDSH1-100
SURFACE MOUNT
HIGH DENSITY
1 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER

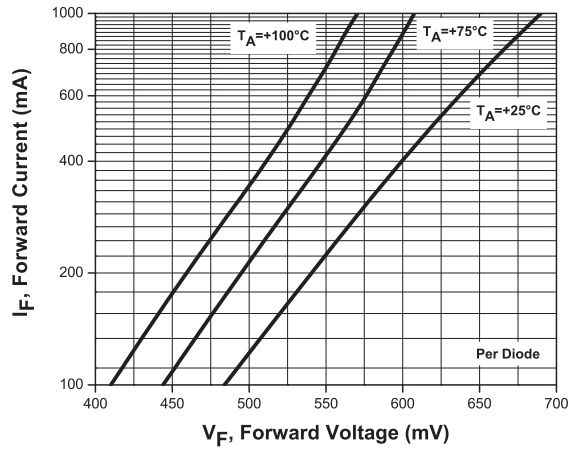


TYPICAL ELECTRICAL CHARACTERISTICS

Typical Leakage Current



Typical Forward Voltage



R6 (22-May 2012)



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

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [Central Semiconductor](#) manufacturer:

Other Similar products are found below :

[G3SBA60-E351](#) [GBJ1504-BP](#) [GBU10B-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU4D-BP](#) [GBU6B-E3/45](#) [GSIB680-E3/45](#) [DB101-BP](#) [DF10SA-E345](#) [RMB2S](#) [RCG](#) [APT30DF100HJ](#) [APT60DF20HJ](#) [B2S-E3/80](#) [BU1506-E351](#) [BU15085S-E345](#) [BU1508-E3/45](#) [BU1510-E3/45](#) [RS404GL-BP](#) [RS405GL-BP](#) [G3SBA20-E3/51](#) [G5SBA20-E3/51](#) [G5SBA60-E3/51](#) [GBJ1502-BP](#) [GBL02-E351](#) [GBL10-E3/45](#) [GBU10J-BP](#) [GBU4J-BP](#) [GBU4K-BP](#) [GBU8B-E3/45](#) [GBU8D-BP](#) [GBU8J-BP](#) [GSIB1520-E3/45](#) [MB1510](#) [MB352W](#) [MB6M-G](#) [B2M-E345](#) [B40C7000A](#) [B500C7000A](#) [MP5010W-BP](#) [MP501W-BP](#) [MP502-BP](#) [BR1005-BP](#) [BR101-BP](#) [BU1006-E345](#) [BU12065S-E3/45](#) [BU1508-E3/51](#) [BU2006-E3/45](#) [BU2008-E345](#)