

**CBRHDSH1-40L**  
**SURFACE MOUNT**  
**HIGH DENSITY**  
**1 AMP LOW  $V_F$  SILICON**  
**SCHOTTKY BRIDGE RECTIFIER**



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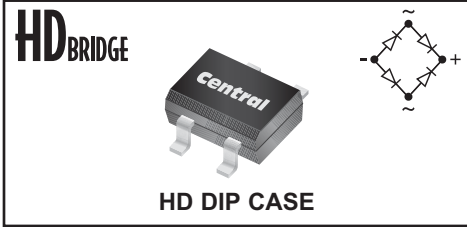
**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBRHDSH1-40L is a full wave bridge rectifier mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.

**MARKING CODE: CSH1**

**FEATURES:**

- Low Leakage Current (20 $\mu$ A TYP @  $V_{RRM}$ )
- High 1.0A Current Rating
- Low  $V_F$  Schottky Diodes (440mV MAX @  $I_F=1.0A$ )



<b>MAXIMUM RATINGS:</b> ( $T_A=25^\circ\text{C}$ unless otherwise noted)	<b>SYMBOL</b>	<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	40 V
DC Blocking Voltage	$V_R$	40 V
RMS Reverse Voltage	$V_{R(RMS)}$	28 V
Average Forward Current	$I_O$	1.2 A
Peak Repetitive Forward Current	$I_{FRM}$	1.7 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	$T_{stg}$	-50 to +150 $^\circ\text{C}$
Thermal Resistance	$\Theta_{JA}$	85 $^\circ\text{C/W}$

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

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>TYP</b>	<b>MAX</b>	<b>UNITS</b>
$I_R$	$V_R=40V$	20	50	$\mu\text{A}$
$I_R$	$V_R=40V, T_A=100^\circ\text{C}$	5.0	20	mA
$V_F$	$I_F=500\text{mA}$	360	380	mV
$V_F$	$I_F=1.0A$	390	440	mV
$C_J$	$V_R=4.0V, f=1.0\text{MHz}$	150		pF

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**HD DIP CASE - MECHANICAL OUTLINE**



R2

<b>DIMENSIONS</b>				
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: CSH1**

R4 (4-January 2010)

# Mouser Electronics

Authorized Distributor

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