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

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)	SYMBOL		UNITS
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	IO	1.2	Α
Peak Repetitive Forward Current	IFRM	1.7	Α
Peak Forward Surge Current	I _{FSM}	20	Α
Power Dissipation	P_{D}	1.2	W
Operating Junction Temperature	T_J	-50 to +125	°C
Storage Temperature	T _{stg}	-50 to +150	°C
Thermal Resistance	Θ.ΙΑ	85	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS PER DIODE:} \ (T_{\c A} = 25^{\circ} \c C \ unless \ otherwise \ noted)$

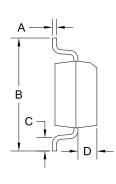
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =40V	20	50	μΑ
I_{R}	V _R =40V, T _A =100°C	5.0	20	mA
V_{F}	I _F =500mA	360	380	mV
V_{F}	I _F =1.0A	390	440	mV
C_{J}	V _R =4.0V, f=1.0MHz	150		pF

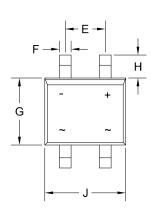
CBRHDSH1-40L

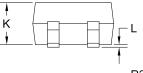
SURFACE MOUNT HIGH DENSITY 1 AMP LOW V_F SILICON SCHOTTKY BRIDGE RECTIFIER



HD DIP CASE - MECHANICAL OUTLINE







R3

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.006	0.014	0.15	0.35			
В	-	0.275	-	7.00			
С	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	0.146	0.165	3.70	4.20			
Н	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: R3)

MARKING CODE: CSH1

R5 (19-August 2020)

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 guick 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

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