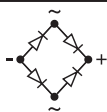


CBRLDSH1-40

**SURFACE MOUNT
LOW PROFILE
1 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER**



LPDIP CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRLDSH1-40 is a full wave Schottky bridge rectifier mounted in a low profile epoxy surface mount molded case, utilizing glass passivated chips.

MARKING CODE: CLP1

APPLICATIONS:

- Solid state lighting (SSL)
- DC-DC converters
- Polarity protection

FEATURES:

- Low leakage current (16 μ A TYP @ V_{RRM})
- Low profile case (1.45mm MAX)
- Low V_F Schottky diodes (450mV TYP @ $I_F=1.0A$)

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

Peak Repetitive Reverse Voltage

SYMBOL

V_{RRM}

40

UNITS

V

DC Blocking Voltage

V_R

40

V

RMS Reverse Voltage

$V_{R(RMS)}$

28

V

Average Forward Current

I_O

1.0

A

Peak Forward Surge Current ($t_p=8.3\text{ms}$)

I_{FSM}

30

A

Operating & Storage Junction Temperature

T_J, T_{stg}

-55 to +150

$^\circ\text{C}$

Thermal Resistance

θ_{JA}

95

$^\circ\text{C/W}$

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

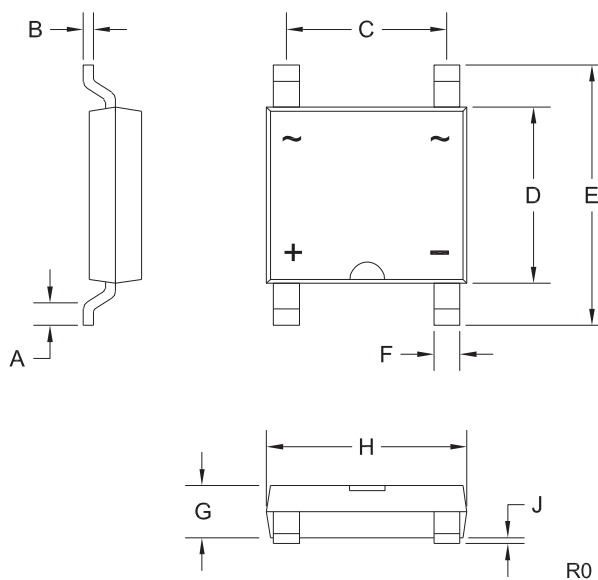
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=40V$		16	100	μA
BV_R	$I_R=0.1\text{mA}$	40	50		V
V_F	$I_F=1.0A$		450	500	mV
C_J	$V_R=4.0V, f=1.0\text{MHz}$		110		pF

R1 (17-January 2012)

CBRLDSH1-40
SURFACE MOUNT
LOW PROFILE
1 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER



LPDIP CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.019	0.028	0.50	0.70
B	0.007	0.012	0.20	0.30
C	0.153	0.162	3.90	4.10
D	0.167	0.179	4.25	4.55
E	0.248	0.264	6.30	6.70
F	0.023	0.028	0.60	0.70
G	0.045	0.058	1.15	1.45
H	0.190	0.203	4.85	5.15
J	0.002	0.006	0.05	0.15

LPDIP (REV: R0)

MARKING CODE: CLP1

R1 (17-January 2012)



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

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