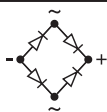


CBRLDSH2-60

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



LPDIP CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRLDSH2-60 is a full wave Schottky bridge rectifier mounted in a low profile epoxy surface mount molded case, utilizing glass passivated chips.

MARKING CODE: CL60

APPLICATIONS:

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

FEATURES:

- Low leakage current (7.0 μ A TYP @ 60V)
- Low profile case (1.45mm MAX)
- Low V_F Schottky diodes (630mV TYP @ $I_F=2.0A$)

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

Peak Repetitive Reverse Voltage

SYMBOL		UNITS
V_{RRM}	60	V
V_R	60	V
$V_{R(RMS)}$	42	V
I_O	2.0	A
I_{FSM}	50	A
T_J	-55 to +125	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$
θ_{JA}	95	$^\circ\text{C/W}$

DC Blocking Voltage

RMS Reverse Voltage

Average Forward Current ($T_L=50^\circ\text{C}$)

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

Operating Junction Temperature

Storage Temperature

Thermal Resistance (Note 1)

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=60V$		7.0	500	μA
BV_R	$I_R=150\mu\text{A}$	60			V
V_F	$I_F=2.0A$		630	700	mV
C_J	$V_R=4.0V$, $f=1.0\text{MHz}$		117		pF

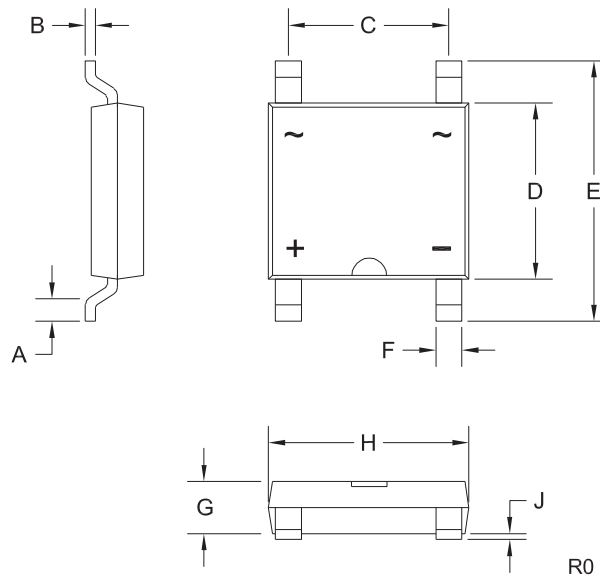
Notes: (1) FR-4 epoxy PCB with minimum copper pad area.

R1 (13-August 2012)

CBRLDSH2-60
SURFACE MOUNT
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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: CL60

R1 (13-August 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

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