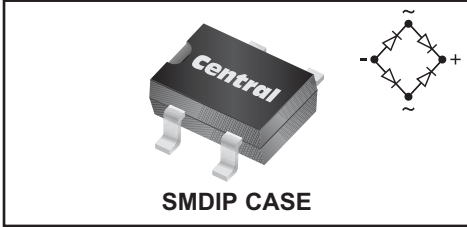


CBRSDSH2-40

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



www.centrasemi.com



DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRSDSH2-40 is a full wave bridge rectifier mounted in a durable epoxy surface mount case, utilizing glass passivated chips.

MARKING: FULL PART NUMBER

FEATURES:

- Low Leakage Current (40 μ A TYP @ V_{RRM})
- High 2.0A Current Rating
- Low V_F Schottky Diodes (400mV TYP @ $I_F=2.0A$)

MAXIMUM RATINGS: ($T_A=25^\circ C$)

Peak Repetitive Reverse Voltage
 DC Blocking Voltage
 RMS Reverse Voltage
 Average Forward Current
 Peak Forward Surge Current (8.3ms)
 Operating and Storage Junction Temperature
 Typical Thermal Resistance (Note 1)
 Typical Thermal Resistance

SYMBOL

V_{RRM} 40
 V_R 40
 $V_{R(RMS)}$ 28
 I_O 2.0
 I_{FSM} 110
 T_J, T_{stg} -50 to +125
 θ_{JA} 40
 θ_{JL} 15

UNITS

V
 V
 V
 A
 A
 $^\circ C$
 $^\circ C/W$
 $^\circ C/W$

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

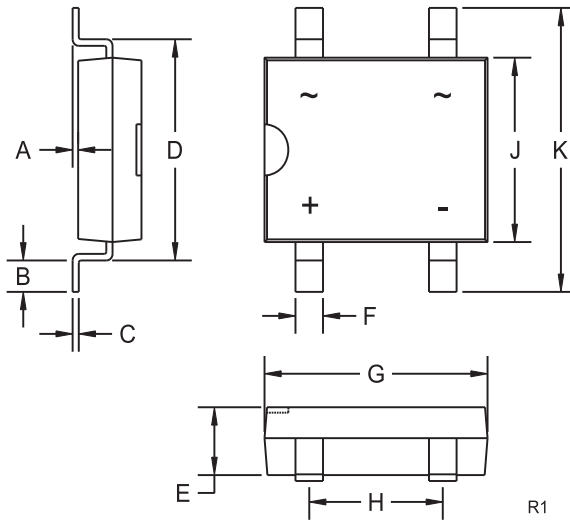
| SYMBOL | TEST CONDITIONS | TYP | MAX | UNITS |
|--------|----------------------|-----|-----|---------|
| I_R | $V_R=40V$ | 40 | 70 | μA |
| V_F | $I_F=2.0A$ | 400 | 450 | mV |
| C_J | $V_R=4.0V, f=1.0MHz$ | 400 | 500 | pF |

Notes: (1) Devices mounted on PCB with 13mm x 13mm copper pads.

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SMDIP CASE - MECHANICAL OUTLINE



| DIMENSIONS | | | | |
|-------------------|--------|-------|-------------|-------|
| SYMBOL | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.004 | 0.008 | 0.10 | 0.20 |
| B | 0.040 | 0.060 | 1.02 | 1.52 |
| C | 0.009 | | 0.23 | |
| D | 0.290 | 0.310 | 7.37 | 7.87 |
| E | 0.086 | 0.098 | 2.18 | 2.49 |
| F | 0.038 | 0.042 | 0.97 | 1.07 |
| G | 0.316 | 0.335 | 8.03 | 8.51 |
| H | 0.195 | 0.205 | 4.95 | 5.21 |
| J | 0.245 | 0.255 | 6.22 | 6.48 |
| K | 0.360 | 0.410 | 9.14 | 10.41 |

SMDIP (REV: R1)

MARKING: FULL PART NUMBER

R1 (26-October 2011)

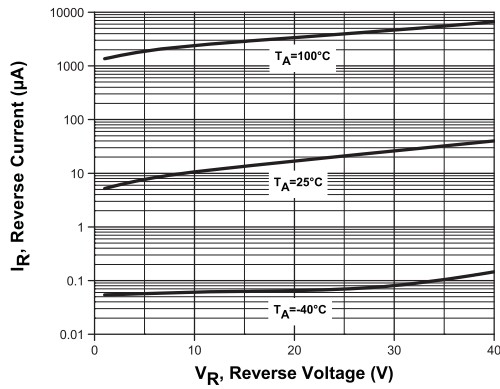
CBRSDSH2-40



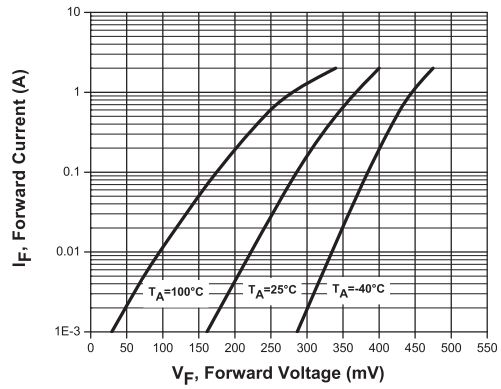
**SURFACE MOUNT
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TYPICAL ELECTRICAL CHARACTERISTICS

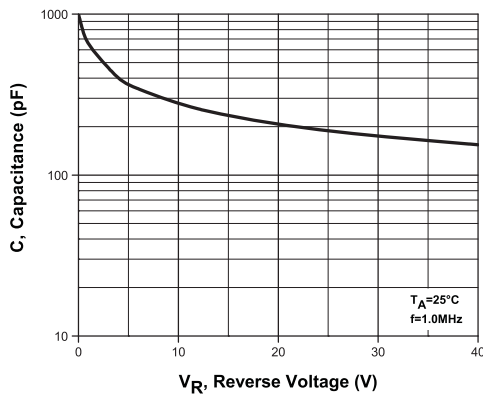
Typical Per Diode Leakage Current



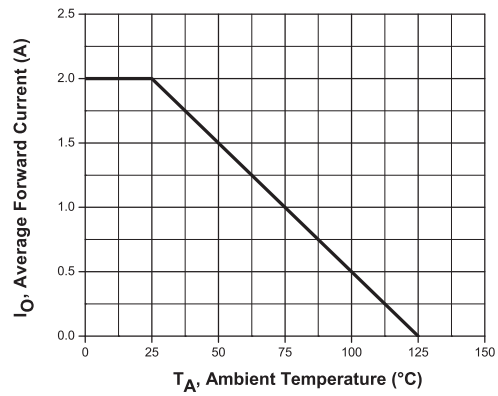
Typical Per Diode Forward Voltage



Typical Per Diode Capacitance



Per Diode Current Derating



R1 (26-October 2011)

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

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