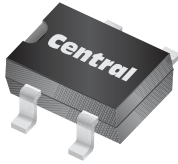
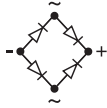


CBRSDSH2-40

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



SMDIP CASE



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}

V_R

$V_{R(RMS)}$

I_O

I_{FSM}

T_J, T_{stg}

Θ_{JA}

Θ_{JL}

40

40

28

2.0

110

-50 to +125

40

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

I_R

$V_R=40V$

V_F

$I_F=2.0A$

C_J

$V_R=4.0V, f=1.0MHz$

TYP

40

400

400

MAX

70

450

500

UNITS

μA

mV

pF

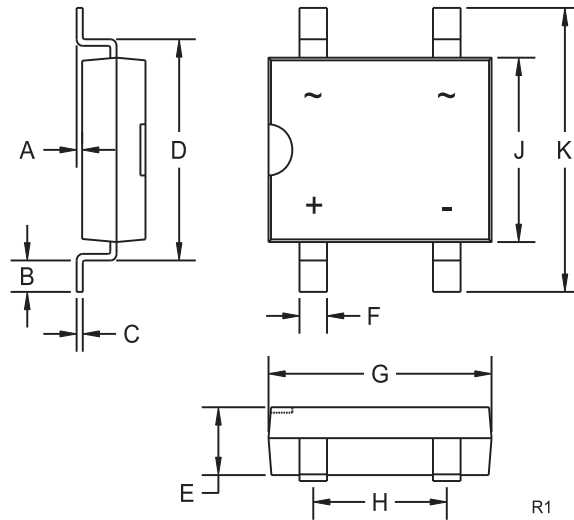
Notes: (1) Devices mounted on PCB with 13mm x 13mm copper pads.

CBRSDSH2-40

SURFACE MOUNT
2 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER



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)

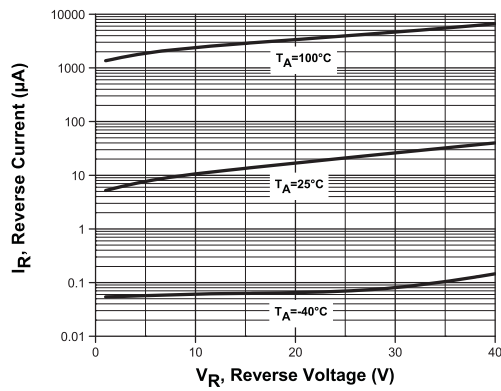
CBRSDSH2-40



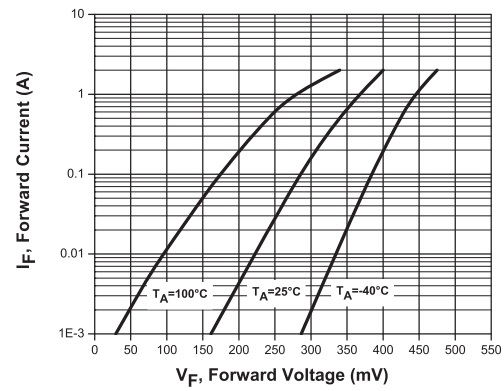
**SURFACE MOUNT
2 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER**

TYPICAL ELECTRICAL CHARACTERISTICS

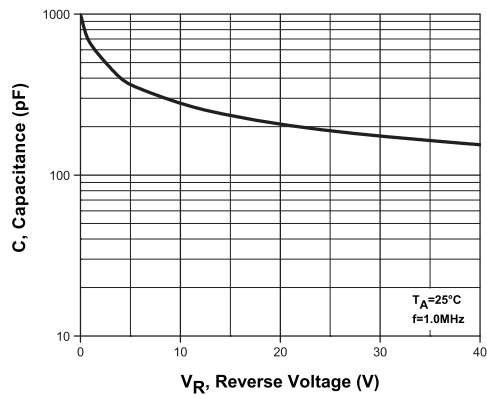
Typical Per Diode Leakage Current



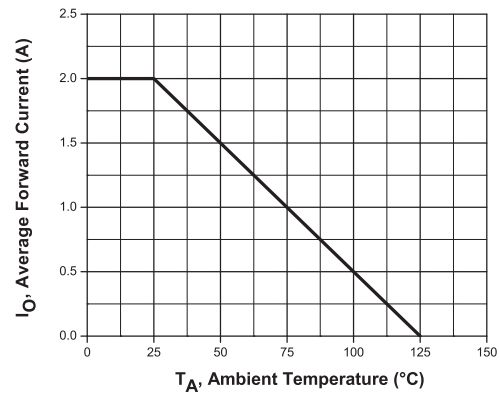
Typical Per Diode Forward Voltage



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

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