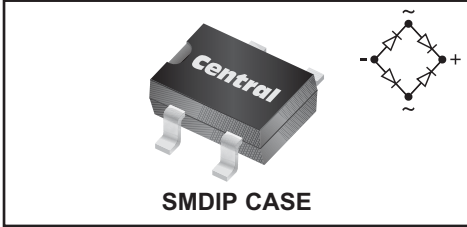


**CBRSDSH2-40**

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



[www.centrasemi.com](http://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 (40µA 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  
 $\theta_{JA}$  40  
 $\theta_{JL}$  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)

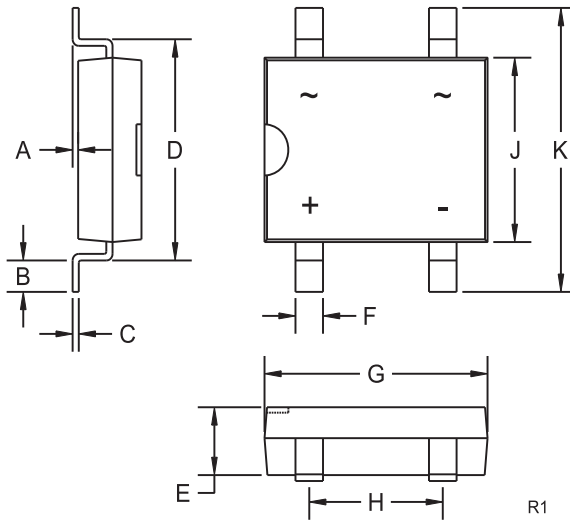
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=40V$	40	70	$\mu A$
$V_F$	$I_F=2.0A$	400	450	mV
$C_J$	$V_R=4.0V, f=1.0MHz$	400	500	pF

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

**CBRSDSH2-40**  
**SURFACE MOUNT**  
**2 AMP SILICON**  
**SCHOTTKY BRIDGE RECTIFIER**



**SMDIP CASE - MECHANICAL OUTLINE**



<b>DIMENSIONS</b>				
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)

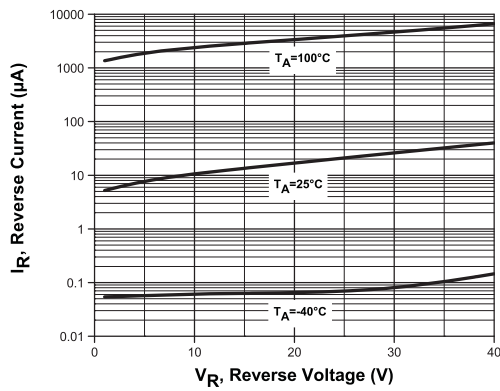
CBRSDSH2-40



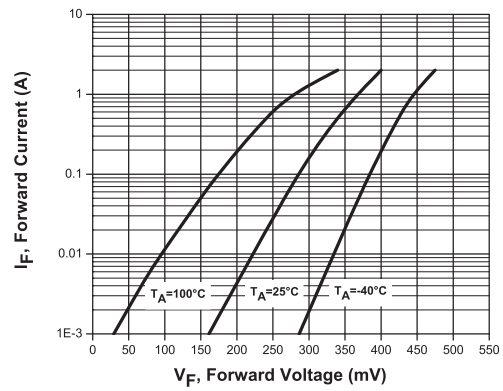
**SURFACE MOUNT  
2 AMP SILICON  
SCHOTTKY BRIDGE RECTIFIER**

**TYPICAL ELECTRICAL CHARACTERISTICS**

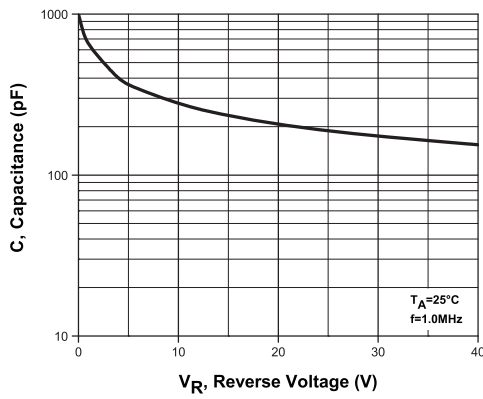
**Typical Per Diode Leakage Current**



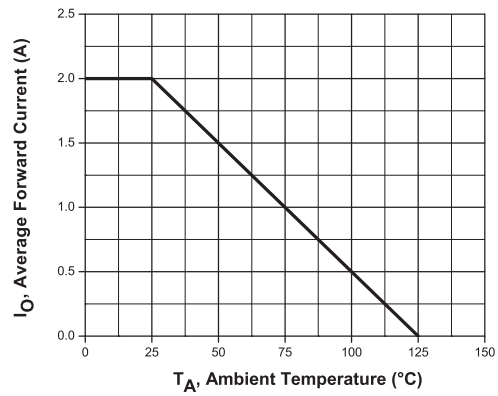
**Typical Per Diode Forward Voltage**



**Typical Per Diode Capacitance**



**Per Diode Current Derating**



R1 (26-October 2011)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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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### 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).

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### CONTACT US

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