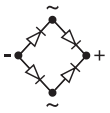
CBRSDSH2-40

SURFACE MOUNT
2 AMP SILICON
SCHOTTKY BRIDGE RECTIFIER





SMDIP CASE

Central Semiconductor Corp.

www.centralsemi.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°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Forward Current	I_O	2.0	A
Peak Forward Surge Current (8.3ms)	I_{FSM}	110	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-50 to +125	°C
Typical Thermal Resistance (Note 1)	Θ_{JA}	40	°C/W
Typical Thermal Resistance	Θ_{JL}	15	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

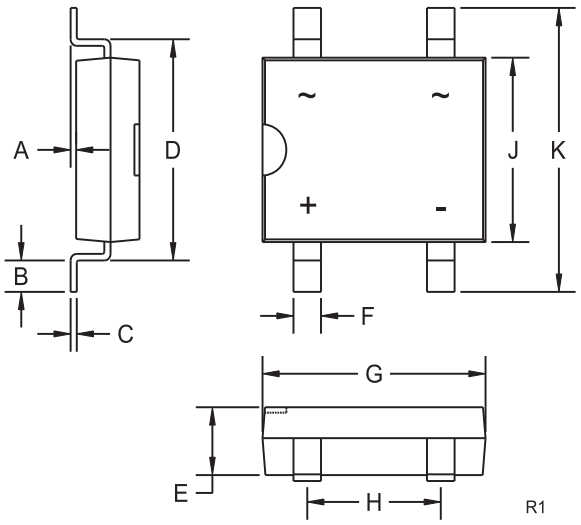
SYMBOL	**TEST CONDITIONS**	**TYP**	**MAX**	**UNITS**
I_R	V_R=40V	40	70	μA
V_F	I_F=2.0A	400	450	mV
C_J	V_R=4.0V, f=1.0MHz	400	500	pF

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

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SMDIP CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

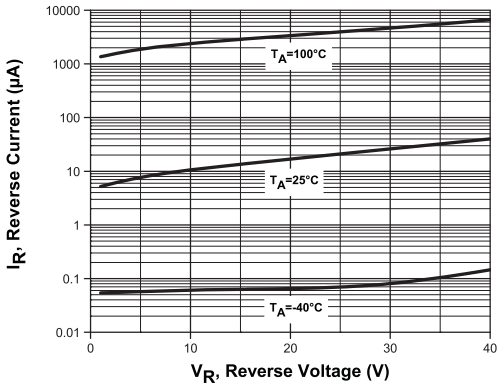
MARKING: FULL PART NUMBER

CBRSDSH2-40

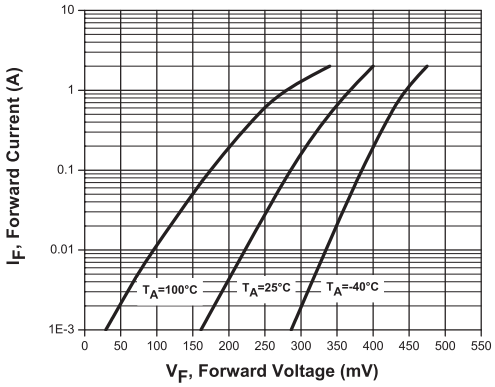
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TYPICAL ELECTRICAL CHARACTERISTICS

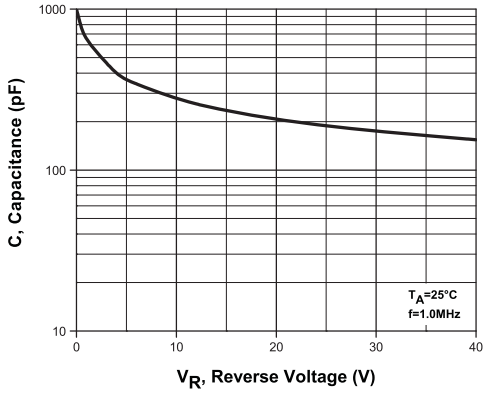
Typical Per Diode Leakage Current



Typical Per Diode Forward Voltage



Typical Per Diode Capacitance



Per Diode Current Derating

