

CMSH8-40

**SURFACE MOUNT SILICON
SCHOTTKY RECTIFIER
8.0 AMP, 40 VOLT**



SMC CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH8-40 is a highly reliable 8.0 Amp, 40 Volt surface mount silicon Schottky rectifier designed for use in all types of commercial, industrial, entertainment, computer, and lighting applications.

MARKING CODE: CS840

APPLICATIONS:

- DC-DC output rectification
- By-pass diode
- Power management

FEATURES:

- High current capability ($I_O=8.0A$)
- Low forward voltage (0.48V @ 8.0A)
- Low reverse leakage current (50 μA @ 25°C)

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

	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 ($T_L=115^\circ C$)	I_O	8.0	A
Peak Forward Surge Current, $t_p=8.3ms$	I_{FSM}	150	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ C$
Thermal Resistance	θ_{JA}	110	$^\circ C/W$
Thermal Resistance	θ_{JL}	17	$^\circ C/W$

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=40V$	50	500	μA
I_R	$V_R=40V, T_J=125^\circ C$		50	mA
V_F	$I_F=8.0A$	0.48	0.55	V
C_J	$V_R=4.0V, f=1.0MHz$	390		pF

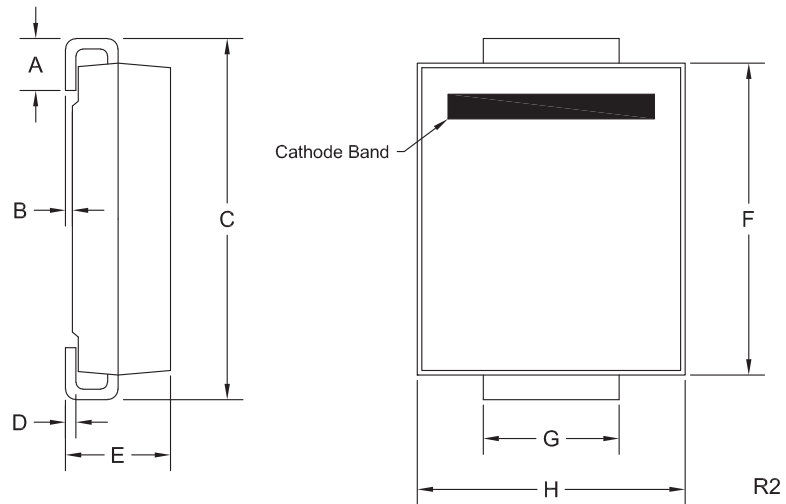
R3 (11-September 2013)

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SMC CASE - MECHANICAL OUTLINE



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SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	0.305	0.320	7.75	8.13
D	0.006	0.012	0.15	0.31
E	0.079	0.103	2.00	2.62
F	0.260	0.280	6.60	7.11
G	0.108	0.128	2.75	3.25
H	0.220	0.245	5.59	6.22

SMC (REV: R2)

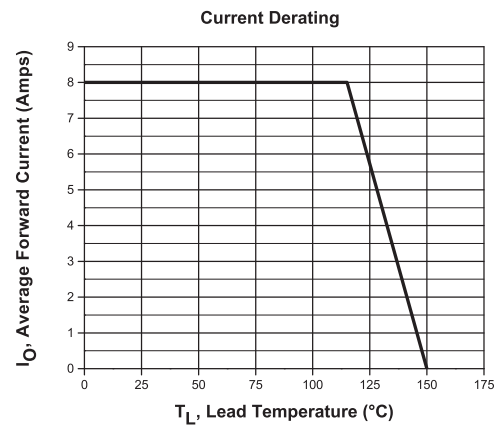
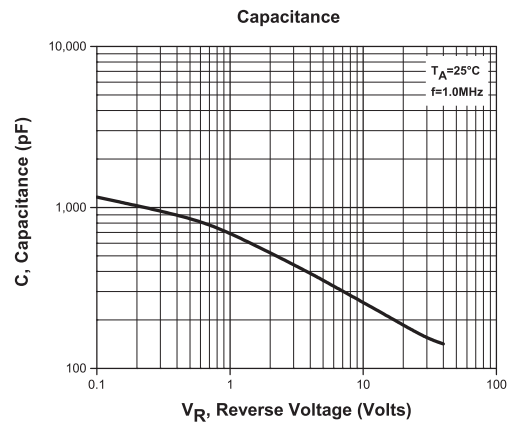
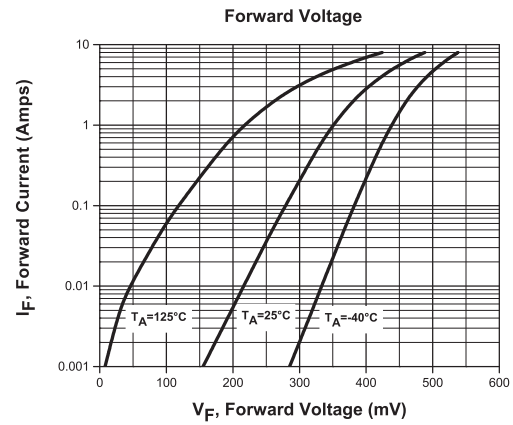
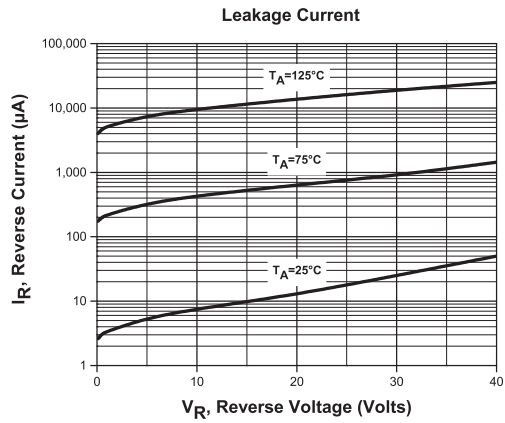
R3 (11-September 2013)

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TYPICAL ELECTRICAL CHARACTERISTICS



R3 (11-September 2013)

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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