

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 μ A @ 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

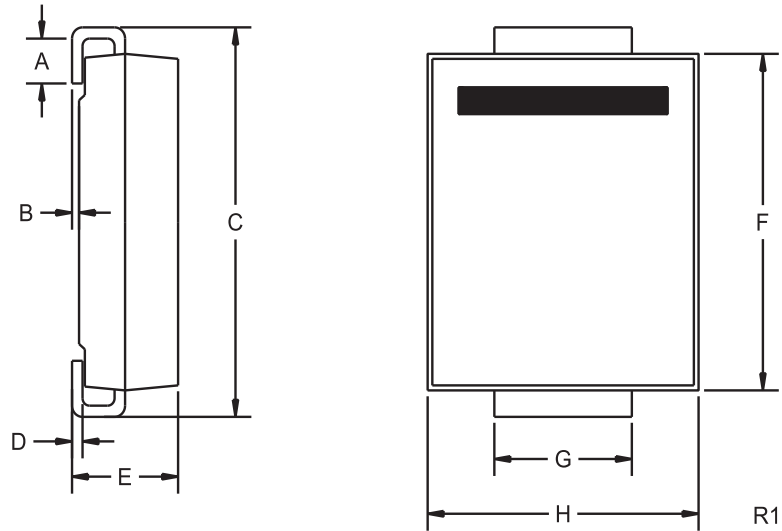
R2 (26-February 2013)

CMSH8-40

SURFACE MOUNT SILICON
SCHOTTKY RECTIFIER
8.0 AMP, 40 VOLT



SMC CASE - MECHANICAL OUTLINE



MARKING CODE: CS840

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	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	0.124	2.75	3.15
H	0.220	0.245	5.59	6.22

SMC (REV: R1)

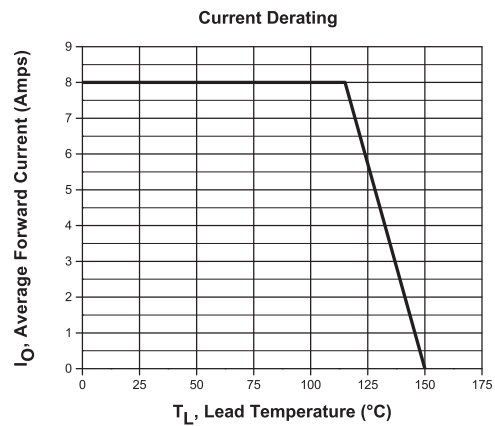
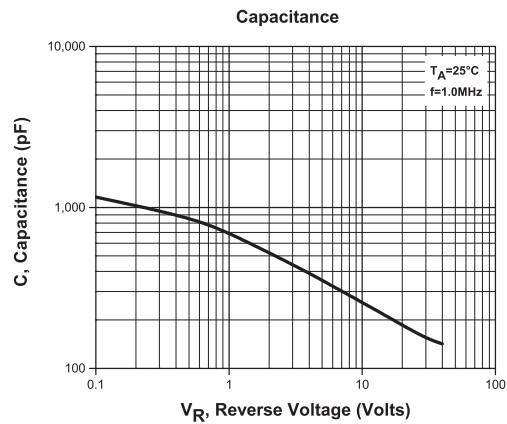
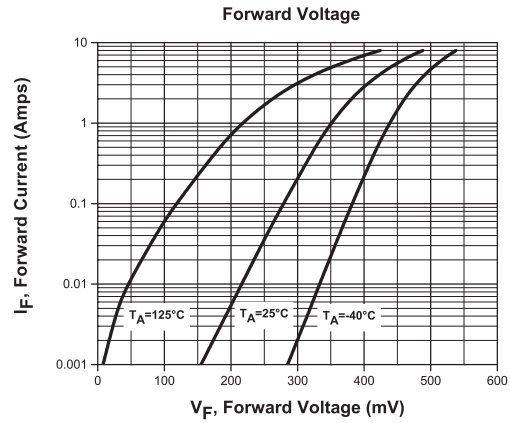
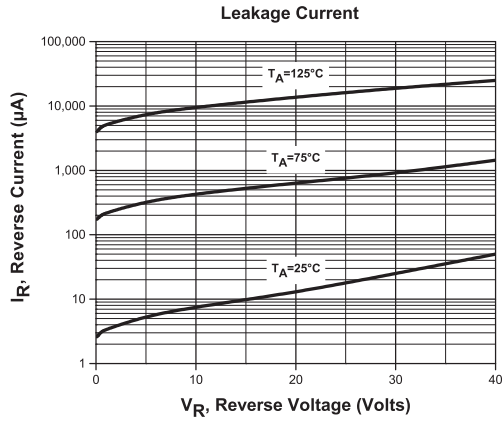
R2 (26-February 2013)

CMSH8-40

SURFACE MOUNT SILICON
SCHOTTKY RECTIFIER
8.0 AMP, 40 VOLT



TYPICAL ELECTRICAL CHARACTERISTICS



R2 (26-February 2013)