CMSH1-40HE CMSH1-100HE
CMSH1-60HE CMSH1-150HE
CMSH1-80HE CMSH1-200HE

SURFACE MOUNT
SILICON SCHOTTKY RECTIFIER
1 AMP, 40 THRU 200 VOLTS



SMA CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH1-40HE Series 1.0 Amp Surface Mount Silicon Schottky Rectifier is a high quality, high efficiency component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High reliability
- High efficiency Schottky rectifier
- 40V to 200V range
- Low leakage current
- Low V_F
- "C" bend construction provides strain relief when mounted on pc board

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CMSH1 -40HE	-60HE	-80HE	-100HE	-150HE	-200HE	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	80	100	150	200	V
DC Blocking Voltage	V_R	40	60	80	100	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	42	56	70	105	140	V
Average Forward Current	I_O			1.0				A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}			30				A
Operating and Storage Junction Temperature	T_J, T_{stg}			-65 to +150				°C
Thermal Resistance	Θ_{JL}			30				°C/W

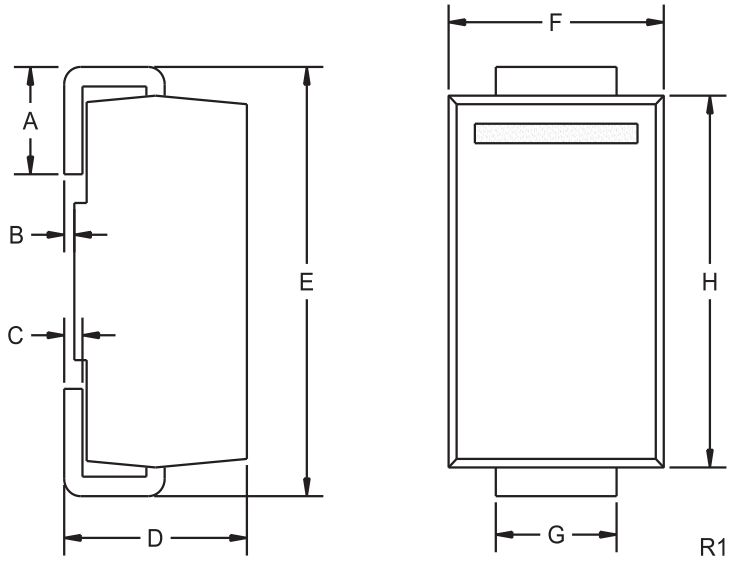
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	V_R=Rated V_{RRM}	50	μA
I_R	V_R=Rated V_{RRM}, T_A=100°C	20	mA
V_F	I_F=1.0A (CMSH1-40HE)	0.70	V
V_F	I_F=1.0A (CMSH1-60HE)	0.74	V
V_F	I_F=1.0A (CMSH1-80HE, -100HE)	0.80	V
V_F	I_F=1.0A (CMSH1-150HE, -200HE)	0.90	V

CMSH1-40HE CMSH1-100HE
CMSH1-60HE CMSH1-150HE
CMSH1-80HE CMSH1-200HE

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH1-40HE	CS40HE
CMSH1-60HE	CS60HE
CMSH1-80HE	CS80HE
CMSH1-100HE	CS100HE
CMSH1-150HE	CS150HE
CMSH1-200HE	CS200HE

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.006	0.012	0.15	0.30
D	0.078	0.103	1.98	2.62
E	0.188	0.220	4.78	5.59
F	0.090	0.115	2.29	2.92
G	0.050	0.070	1.27	1.78
H	0.157	0.181	3.99	4.60

SMA (REV: R1)