

CMSH2-20M CMSH2-60M  
CMSH2-40M CMSH2-100M

**SURFACE MOUNT  
SILICON SCHOTTKY RECTIFIER  
2 AMP, 20 THRU 100 VOLTS**



**SMA CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSH2-20M Series 2.0 Amp Surface Mount Silicon Schottky Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (5000/13" Reel), add TR13 suffix to part number.

**MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE**

**FEATURES:**

- High current capability
- Flammability classification UL94V-0
- Superior lot to lot consistency
- Low cost
- High reliability
- "C" bend construction provides strain relief when mounted on pc board

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

SYMBOL	CMSH2	CMSH2	CMSH2	CMSH2	UNITS	
	-20M	-40M	-60M	-100M		
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	40	60	100	V
DC Blocking Voltage	$V_R$	20	40	60	100	V
RMS Reverse Voltage	$V_R(RMS)$	14	28	42	71	V
Average Forward Current ( $T_L=75^\circ\text{C}$ )	$I_O$			2.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$			50		A
Operating and Storage Junction Temperature	$T_J, T_{stg}$			-65 to +150		$^\circ\text{C}$
Thermal Resistance	$\theta_{JL}$			30		$^\circ\text{C/W}$

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

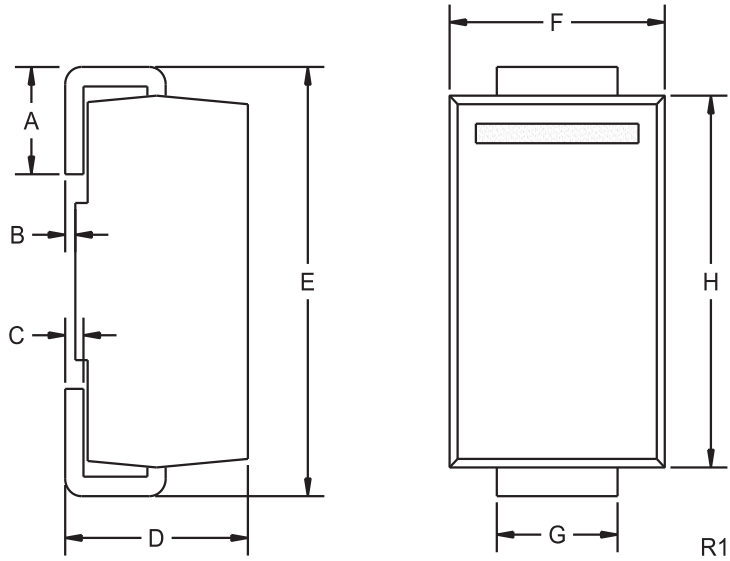
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=$ Rated $V_{RRM}$		0.50	mA
$I_R$	$V_R=$ Rated $V_{RRM}$ , $T_A=100^\circ\text{C}$		20	mA
$V_F$	$I_F=2.0\text{A}$ (CMSH2-20M, -40M)		0.55	V
$V_F$	$I_F=2.0\text{A}$ (CMSH2-60M)		0.70	V
$V_F$	$I_F=2.0\text{A}$ (CMSH2-100M)		0.85	V
$C_J$	$V_R=4.0\text{V}$ , $f=1.0\text{MHz}$ , (CMSH2-20M, -40M)	150		pF
$C_J$	$V_R=4.0\text{V}$ , $f=1.0\text{MHz}$ , (CMSH2-60M, -100M)	120		pF

R2 (8-February 2010)

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**SMA CASE - MECHANICAL OUTLINE**



DEVICE	MARKING CODE
CMSH2-20M	CS220M
CMSH2-40M	CS240M
CMSH2-60M	CS260M
CMSH2-100M	CS2100M

SYMBOL	DIMENSIONS			
	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	0.006	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)

R2 (8-February 2010)