

CMSH1-20M CMSH1-60M
CMSH1-40M CMSH1-100M

**SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
1.0 AMP, 20 THRU 100 VOLT**



SMA CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH1-20M series 1.0 Amp surface mount silicon Schottky rectifier is a well constructed, highly reliable 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
- Special selections available

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

	SYMBOL	CMSH1 -20M	CMSH1 -40M	CMSH1 -60M	CMSH1 -100M	UNITS
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	70	V
Average Forward Current ($T_L=75^{\circ}\text{C}$)	I_O	1.0	1.0			A
Average Forward Current ($T_L=100^{\circ}\text{C}$)	I_O			1.0	1.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}			30		A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150			$^{\circ}\text{C}$
Thermal Resistance	Θ_{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	$V_R=\text{Rated } V_{RRM}$		0.50	mA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$		10	mA
V_F	$I_F=1.0\text{A}$ (CMSH1-20M, -40M)		0.50	V
V_F	$I_F=1.0\text{A}$ (CMSH1-60M)		0.70	V
V_F	$I_F=1.0\text{A}$ (CMSH1-100M)		0.85	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH1-20M, -40M)	100		pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH1-60M)	80		pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH1-100M)	50		pF

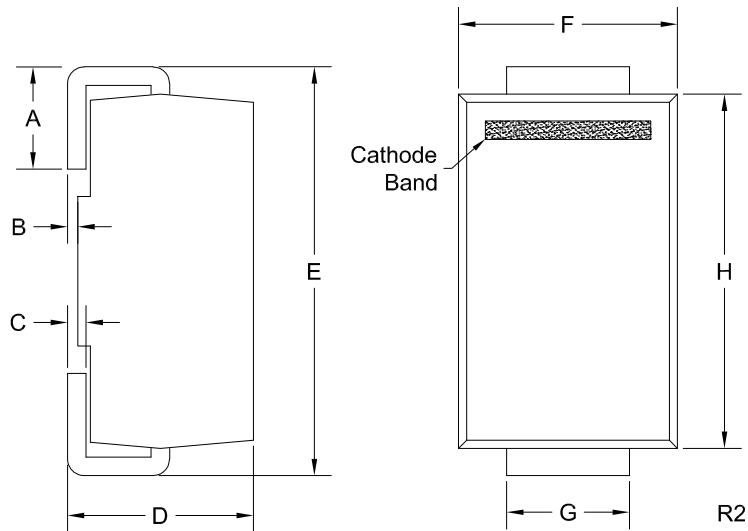
R6 (6-May 2015)

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH1-20M	CS20M
CMSH1-40M	CS40M
CMSH1-60M	CS60M
CMSH1-100M	CS100M

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	0.006	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: R2)

R6 (6-May 2015)

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SERVICES

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R6 (6-May 2015)