

Central™

Semiconductor Corp.

CMSH1-20ML
CMSH1-40ML

SCHOTTKY BARRIER RECTIFIER
1.0 AMP, 20 & 100 VOLTS

LOW
V_F



SMA CASE

FEATURES:

- EXTREMELY LOW FORWARD VOLTAGE DROP
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- LOW COST

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH1-20ML Series are Surface Mount Silicon Schottky Rectifiers designed for applications where extremely low forward voltage drop is required. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODES:

CMSH1-20ML: CS20ML

CMSH1-40ML : CS40ML

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

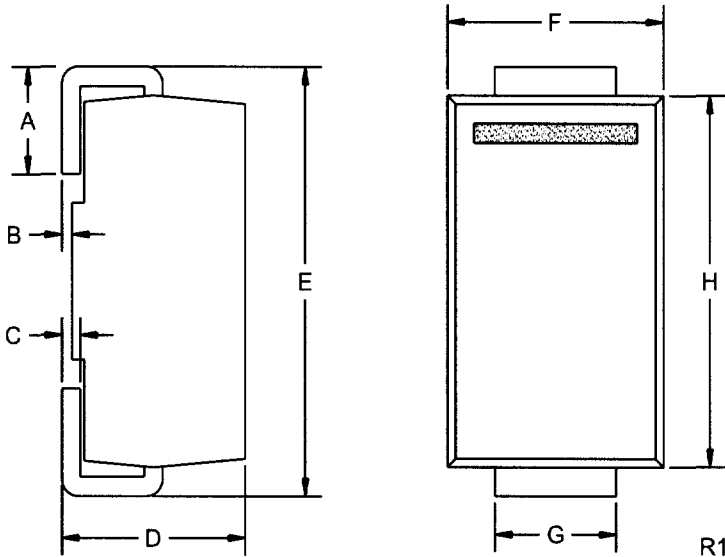
	SYMBOL	CMSH1-20ML	CMSH1-40ML	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	20	40	V
DC Blocking Voltage	V _R	20	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	28	V
Average Forward Current	I _O		1.0	A
Peak Forward Surge Current (8.3ms)	I _{FSM}		30	A
Operating and Storage				
Junction Temperature	T _J , T _{stg}	-65 to +150		°C
Thermal Resistance	θ _{JL}	28		°C/W
Thermal Resistance	θ _{JA}	88		°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}			0.5	mA
I _R	V _R = Rated V _{RRM} , T _C =100°C			20	mA
V _F	I _F =1.0A (CMSH1-20ML)			0.38	V
V _F	I _F =1.0A (CMSH1-40ML)			0.40	V

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH1-20ML	CS20ML
CMSH1-40ML	CS40ML

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)

**DATA
SHEETS**