



**CMSH1-20ML**  
**CMSH1-40ML**

**SCHOTTKY BARRIER RECTIFIER**  
**1.0 AMP, 20 & 40 VOLTS**

**Central<sup>TM</sup>**  
**Semiconductor Corp.**

#### 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

**LOW**  
**V<sub>F</sub>**



**SMA CASE**

#### 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.

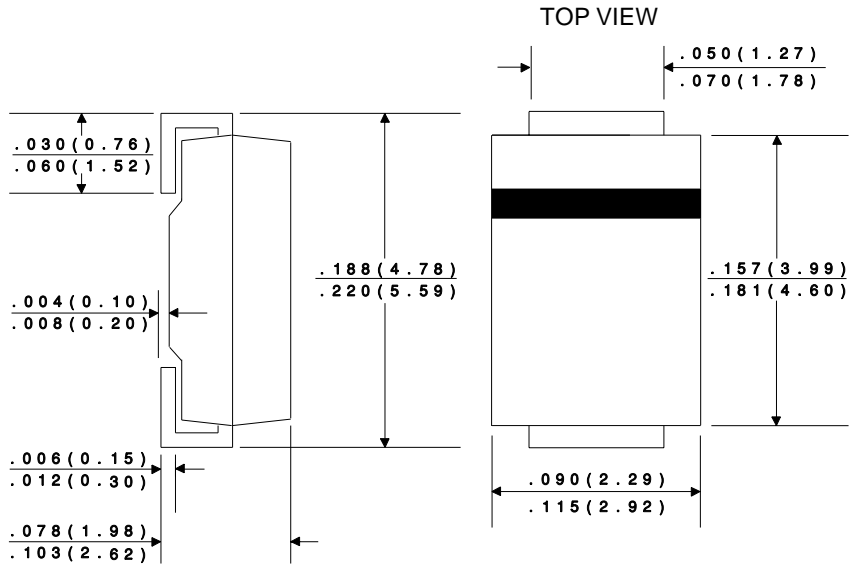
**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

	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	$V_R(\text{RMS})$	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		$^{\circ}\text{C}$
Thermal Resistance	$\theta_{JL}$	28		$^{\circ}\text{C/W}$
Thermal Resistance	$\theta_{JA}$	88		$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$			0.5	mA
$I_R$	$V_R=\text{Rated } V_{RRM}, T_C=100^{\circ}\text{C}$			20	mA
$V_F$	$I_F=1.0\text{A (CMSH1-20ML)}$			0.38	V
$V_F$	$I_F=1.0\text{A (CMSH1-40ML)}$			0.40	V

All Dimensions in Inches (mm).



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