



CMSH1-20ML
CMSH1-40ML

SCHOTTKY BARRIER RECTIFIER
1.0 AMP, 20 & 40 VOLTS

CentralTM
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_F



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.

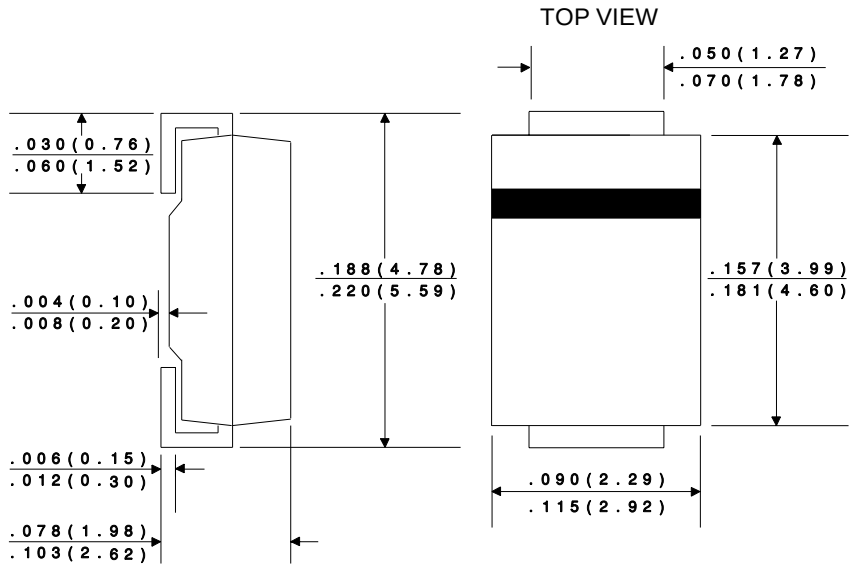
MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

	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	θ_{JL}	28		$^{\circ}\text{C/W}$
Thermal Resistance	θ_{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