



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

**HIGH DENSITY**  
**SCHOTTKY BARRIER RECTIFIER**  
**2.0 AMP, 20 THRU 100 VOLTS**

**HIGH DENSITY**  
**SCHOTTKY**



**SMA CASE**

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

**FEATURES:**

- HIGH CURRENT CAPABILITY
- FLAMMABILITY CLASSIFICATION UL94V-0
- HIGH DENSITY, SUPER MINI DEVICE
- SUPERIOR LOT TO LOT CONSISTENCY
- LOW COST
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- HIGH RELIABILITY

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 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.

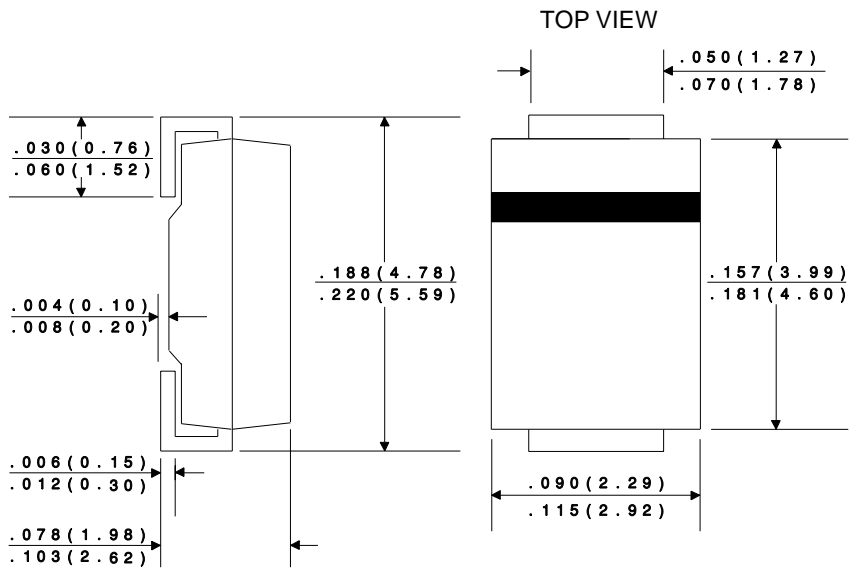
**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

	<b>SYMBOL</b>	<b>CMSH2 -20M</b>	<b>CMSH2 -40M</b>	<b>CMSH2 -60M</b>	<b>CMSH2 -100M</b>	<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	40	60	100	V
DC Blocking Voltage	$V_R$	20	40	60	100	V
RMS Reverse Voltage	$V_R(\text{RMS})$	14	28	42	71	V
Average Forward Current ( $T_L=75^{\circ}\text{C}$ )	$I_O$			2.0		A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$			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)

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

All Dimensions in Inches (mm).



**Marking Codes:**

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