



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

CentralTM
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.

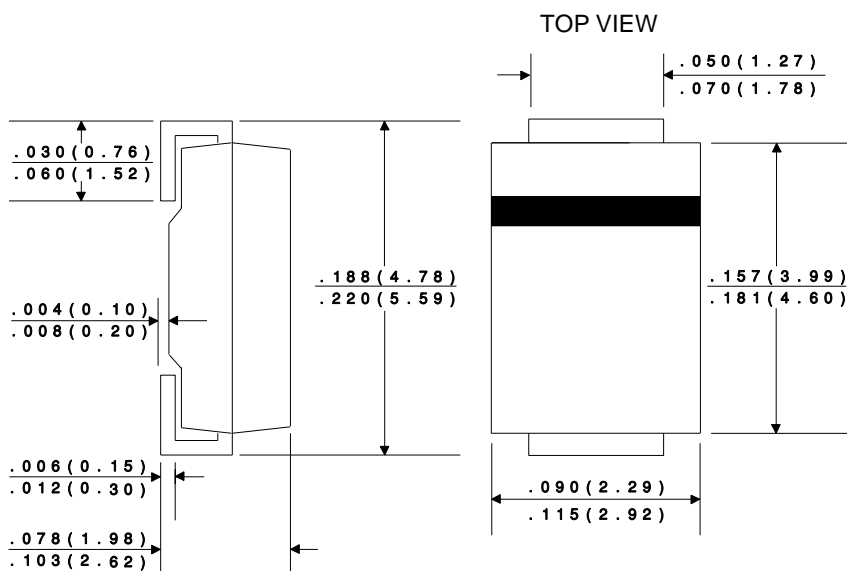
MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL	CMSH2 -20M	CMSH2 -40M	CMSH2 -60M	CMSH2 -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	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	Θ_{JL}		30			$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$			0.50	mA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$			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