

CMSH2-20
CMSH2-40
CMSH2-60
CMSH2-100

SCHOTTKY BARRIER RECTIFIER
2.0 AMP, 20 THRU 100 VOLTS



SMB CASE

CentralTM
Semiconductor Corp.

FEATURES:

- LOW COST
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- SPECIAL SELECTIONS AVAILABLE

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 (3000/13" Reel), add TR13 suffix to part number.

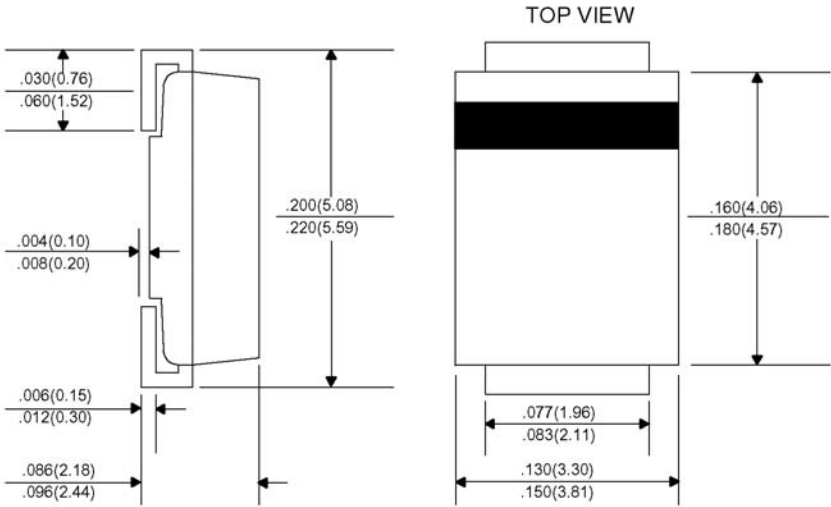
MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

		CMSH2 <u>-20</u>	CMSH2 <u>-40</u>	CMSH2 <u>-60</u>	CMSH2 <u>-100</u>	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 ($T_A=55^\circ\text{C}$)	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}		20			$^\circ\text{C/W}$

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	$I_F=2.0\text{A}$ (CMSH2-20 AND CMSH2-40)			0.50	V
V_F	$I_F=2.0\text{A}$ (CMSH2-60)			0.70	V
V_F	$I_F=2.0\text{A}$ (CMSH2-100)			0.85	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$, (CMSH2-20 AND CMSH2-40)	150			pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$, (CMSH2-60 AND CMSH2-100)	120			pF

All dimensions in inches (mm).



Marking Codes:

DEVICE	MARKING CODE
CMSH2-20	CS220
CMSH2-40	CS240
CMSH2-60	CS260
CMSH2-100	CS2100

DATA
SHEETS