

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

**SURFACE MOUNT
 SILICON SCHOTTKY RECTIFIER
 2 AMP, 20 THRU 100 VOLTS**



SMB CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH2-20 Series 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.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- Low cost
- Superior lot to lot consistency
- High reliability
- Special selections available
- "C" bend construction provides strain relief when mounted on pc board

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

	SYMBOL	CMSH2 -20	CMSH2 -40	CMSH2 -60	CMSH2 -100	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, $t_p=8.3\text{ms}$	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	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	$I_F=2.0\text{A (CMSH2-20, -40)}$		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	$V_R=4.0\text{V}, f=1.0\text{MHz, (CMSH2-20, -40)}$	150		pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz, (CMSH2-60, -100)}$	120		pF

R4 (8-February 2010)

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SMB CASE - MECHANICAL OUTLINE



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

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.006	0.012	0.15	0.30
D	0.086	0.096	2.18	2.44
E	0.200	0.220	5.08	5.59
F	0.130	0.150	3.30	3.81
G	0.077	0.083	1.96	2.11
H	0.160	0.180	4.06	4.57

SMB (REV: R1)

R4 (8-February 2010)