

CMSH3-20 CMSH3-60
 CMSH3-40 CMSH3-100

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



SMC CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-20 series 3.0 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 16mm 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	CMSH3 <u>-20</u>	CMSH3 <u>-40</u>	CMSH3 <u>-60</u>	CMSH3 <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 ($T_A=75^\circ\text{C}$)	I_O			3.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}			150		A
Operating Junction Temperature	T_J		-65 to +150			$^\circ\text{C}$
Storage Temperature	T_{stg}		-65 to +175			$^\circ\text{C}$
Thermal Resistance	θ_{JL}		10			$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$	500	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$	20	mA
V_F	$I_F=3.0\text{A (CMSH3-20, -40)}$	0.50	V
V_F	$I_F=3.0\text{A (CMSH3-60)}$	0.70	V
V_F	$I_F=3.0\text{A (CMSH3-100)}$	0.80	V

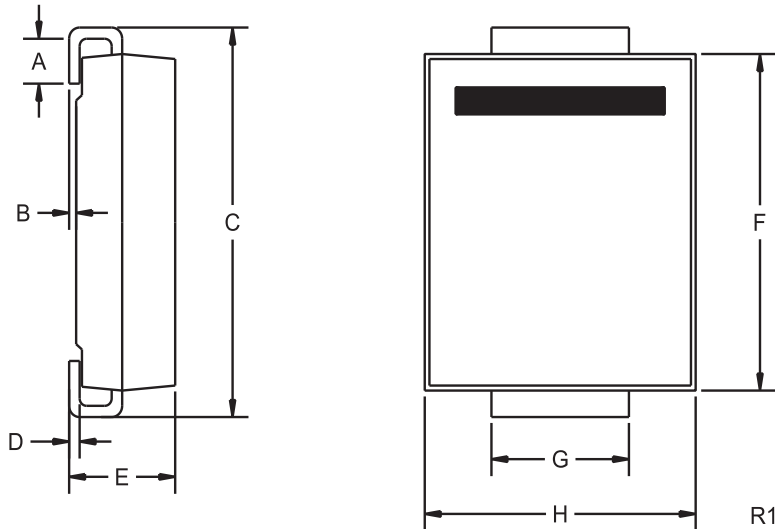
R4 (18-June 2012)

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SMC CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH3-20	CS320
CMSH3-40	CS340
CMSH3-60	CS360
CMSH3-100	CS3100

SYMBOL	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	0.305	0.320	7.75	8.13
D	0.006	0.012	0.15	0.31
E	0.079	0.103	2.00	2.62
F	0.260	0.280	6.60	7.11
G	0.108	0.124	2.75	3.15
H	0.220	0.245	5.59	6.22

SMC (REV: R1)

R4 (18-June 2012)