

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

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



**SMC CASE**



[www.centrasemi.com](http://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 -20	CMSH3 -40	CMSH3 -60	CMSH3 -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 ( $T_A=75^\circ\text{C}$ )	$I_O$			3.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$			150		A
Operating and Storage Junction Temperature	$T_J, T_{stg}$			-65 to +150		$^\circ\text{C}$
Thermal Resistance	$\theta_{JL}$			10		$^\circ\text{C/W}$

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

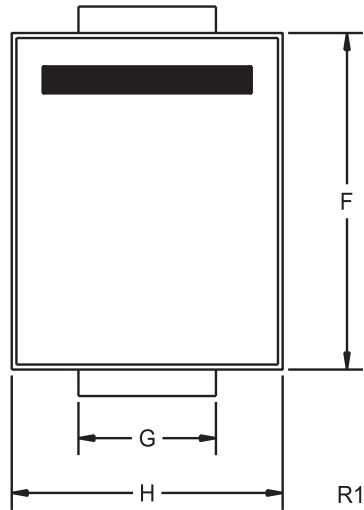
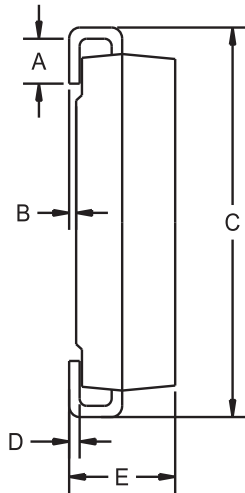
SYMBOL	TEST CONDITIONS	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$	500	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$	20	mA
$V_F$	$I_F=3.0\text{A (CMSH3-20, -40)}$	0.50	V
$V_F$	$I_F=3.0\text{A (CMSH3-60)}$	0.70	V
$V_F$	$I_F=3.0\text{A (CMSH3-100)}$	0.80	V

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



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

**SMC CASE - MECHANICAL OUTLINE**



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

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	0.305	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)

R3 (8-February 2010)