

CMSH5-100HV
 CMSH5-150HV
 CMSH5-200HV

**SURFACE MOUNT
 SILICON SCHOTTKY RECTIFIER
 5 AMP, 100 THRU 200 VOLTS**



SMC CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH5-100HV series 5.0 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 lighting 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:

- High voltage capability
- Flammability classification UL94V-0
- Energy efficiency
- High reliability
- "C" bend construction provides strain relief when mounted on PC board

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

	SYMBOL	CMSH5 -100HV	CMSH5 -150HV	CMSH5 -200HV	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	150	200	V
DC Blocking Voltage	V_R	100	150	200	V
RMS Reverse Voltage	$V_R(\text{RMS})$	70	105	140	V
Average Forward Current ($T_L=75^\circ\text{C}$)	I_O		5.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		100		A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +175		$^\circ\text{C}$
Thermal Resistance (Note 1)	θ_{JA}		50		$^\circ\text{C/W}$
Thermal Resistance (Note 1)	θ_{JL}		10		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		50	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_J=100^\circ\text{C}$		10	mA
V_F	$I_F=5.0\text{A (CMSH5-100HV)}$		0.80	V
V_F	$I_F=5.0\text{A (CMSH5-150HV, -200HV)}$		0.90	V

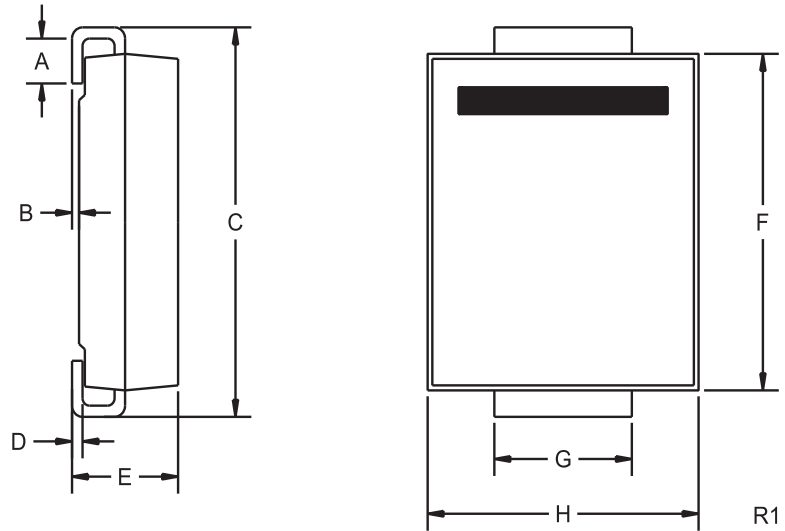
Notes: (1) FR-4 epoxy PCB with copper mounting pad area of 25.4mm².

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SMC CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH5-100HV	CS510HV
CMSH5-150HV	CS515HV
CMSH5-200HV	CS520HV

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)

R2 (25-April 2012)