

CMSH3-100MHV  
 CMSH3-150MHV  
 CMSH3-200MHV

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



**SMB CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSH3-100MHV 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 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<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL	CMSH3 -100MHV	CMSH3 -150MHV	CMSH3 -200MHV	UNITS
Peak Repetitive Reverse Voltage	V <sub>R</sub> RRM	100	150	200	V
DC Blocking Voltage	V <sub>R</sub>	100	150	200	V
RMS Reverse Voltage	V <sub>R</sub> (RMS)	70	105	140	V
Average Forward Current (T <sub>L</sub> =125°C)	I <sub>O</sub>		3.0		A
Peak Forward Surge Current, tp=8.3ms	I <sub>FSM</sub>		80		A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 to +175		°C
Thermal Resistance	θ <sub>JL</sub>		20		°C/W

**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>R</sub> RRM		50	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>R</sub> RRM, T <sub>J</sub> =100°C		20	mA
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-100MHV)		0.80	V
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-150MHV, -200MHV)		0.90	V

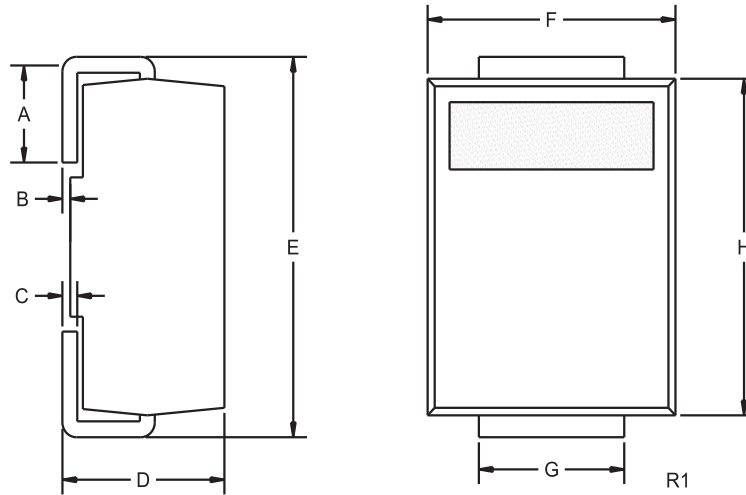
R1 (22-July 2011)

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SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH3-100MHV	CS310MHV
CMSH3-150MHV	CS315MHV
CMSH3-200MHV	CS320MHV

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)

R1 (22-July 2011)

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