

CMHSH5-2L

SURFACE MOUNT  
SCHOTTKY RECTIFIER  
500mA, 20 VOLTS  
LOW FORWARD VOLTAGE

LOW  
V<sub>F</sub>



SOD-123 CASE

**Central**<sup>TM</sup>  
**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMHSH5-2L type is a Silicon Schottky Rectifier, epoxy molded in a surface mount package, designed for high current, fast switching applications requiring a low forward voltage drop.

**MARKING CODE: C2L**

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

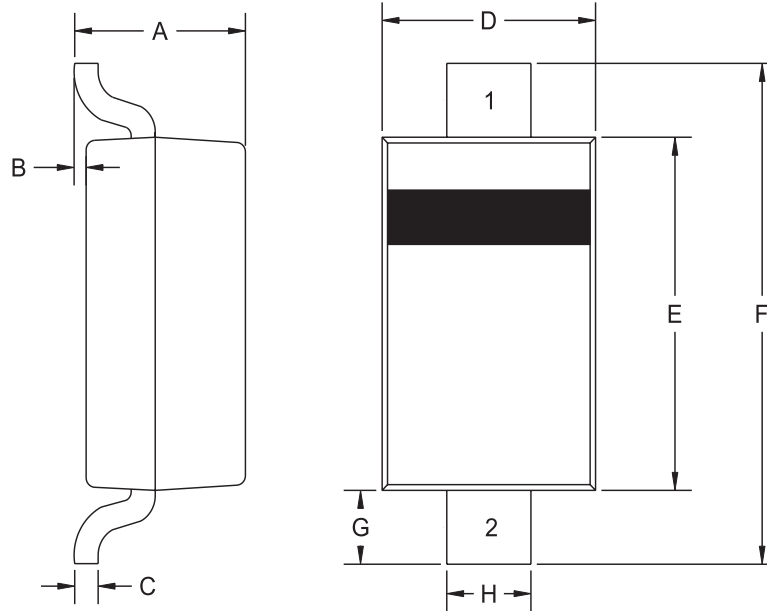
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	V
Peak Working Reverse Voltage	V <sub>RWM</sub>	20	V
DC Blocking Voltage	V <sub>R</sub>	20	V
Average Rectified Current	I <sub>O</sub>	500	mA
Peak Forward Surge Current (@ rated load, halfwave, single phase, 60Hz)	I <sub>FSM</sub>	5.5	A
Junction Temperature	T <sub>J</sub>	-65 to +125	°C
Storage Temperature	T <sub>st</sub>	-65 to +150	-°C
Thermal Resistance	θ <sub>JL</sub>	150	°C/W
Thermal Resistance	θ <sub>JA</sub>	340	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =10V			75	μA
I <sub>R</sub>	V <sub>R</sub> =10V, T <sub>A</sub> =100°C			5.0	mA
I <sub>R</sub>	V <sub>R</sub> =20V			250	μA
I <sub>R</sub>	V <sub>R</sub> =20V, T <sub>A</sub> =100°C			8.0	mA
V <sub>F</sub>	I <sub>F</sub> =100mA			300	mV
V <sub>F</sub>	I <sub>F</sub> =100mA, T <sub>A</sub> =100°C			220	mV
V <sub>F</sub>	I <sub>F</sub> =500mA			385	mV
V <sub>F</sub>	I <sub>F</sub> =500mA, T <sub>A</sub> =100°C			330	mV
C <sub>T</sub>	V <sub>R</sub> =4.0V, f=1.0MHz		60		pF

R3 (31-October 2002)

MECHANICAL OUTLINE - SOD-123



R4

**LEAD CODE:**

- 1) CATHODE
- 2) ANODE

**MARKING CODE: C2L**

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.90
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70

SOD-123 (REV:R4)