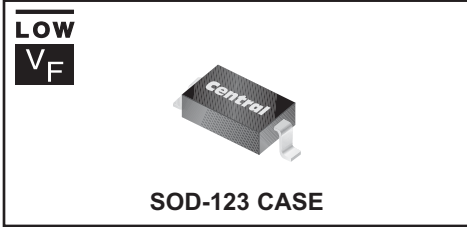


**CMHSH5-2L**  
**SURFACE MOUNT**  
**LOW FORWARD VOLTAGE**  
**SILICON SCHOTTKY RECTIFIER**  
**500mA, 20 VOLTS**



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



**DESCRIPTION:**

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

**MARKING CODE: C2L**

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

Peak Repetitive Reverse Voltage  
 Peak Working Reverse Voltage  
 DC Blocking Voltage  
 Average Rectified Current  
 Peak Forward Surge Current  
 (@ rated load, halfwave, single phase, 60Hz)  
 Operating Junction Temperature  
 Storage Temperature  
 Thermal Resistance  
 Thermal Resistance

**SYMBOL**

$V_{RRM}$  20  
 $V_{RWM}$  20  
 $V_R$  20  
 $I_O$  500  
 $I_{FSM}$  5.5  
 $T_J$  -65 to +125  
 $T_{stg}$  -65 to +150  
 $\theta_{JL}$  150  
 $\theta_{JA}$  340

**UNITS**

V  
 V  
 V  
 mA  
 A  
 $^\circ\text{C}$   
 $^\circ\text{C}$   
 $^\circ\text{C/W}$   
 $^\circ\text{C/W}$

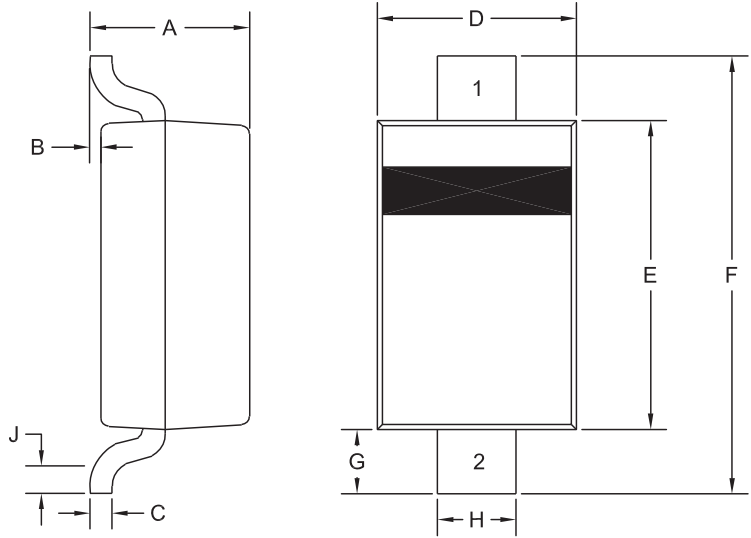
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=10\text{V}$		75	$\mu\text{A}$
$I_R$	$V_R=10\text{V}, T_A=100^\circ\text{C}$		5.0	mA
$I_R$	$V_R=20\text{V}$		250	$\mu\text{A}$
$I_R$	$V_R=20\text{V}, T_A=100^\circ\text{C}$		8.0	mA
$V_F$	$I_F=100\text{mA}$		300	mV
$V_F$	$I_F=100\text{mA}, T_A=100^\circ\text{C}$		220	mV
$V_F$	$I_F=500\text{mA}$		385	mV
$V_F$	$I_F=500\text{mA}, T_A=100^\circ\text{C}$		330	mV
$C_T$	$V_R=4.0\text{V}, f=1.0\text{MHz}$	60		pF

**CMHSH5-2L**  
**SURFACE MOUNT**  
**LOW FORWARD VOLTAGE**  
**SILICON SCHOTTKY RECTIFIER**  
**500mA, 20 VOLTS**



**SOD-123 CASE - MECHANICAL OUTLINE**



R5

**LEAD CODE**

- 1) Cathode
- 2) Anode

**MARKING CODE: C2L**

<b>DIMENSIONS</b>				
SYMBOL	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
J	0.010	-	0.25	-

SOD-123 (REV:R5)

R5 (12-August 2010)