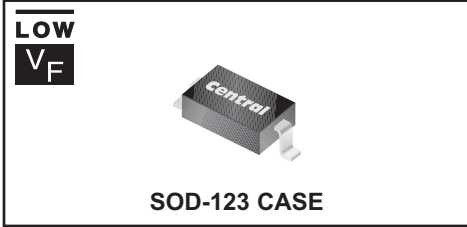


CMHSH5-2L
SURFACE MOUNT
LOW FORWARD VOLTAGE
SILICON SCHOTTKY RECTIFIER
500mA, 20 VOLTS



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
 θ_{JL} 150
 θ_{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)

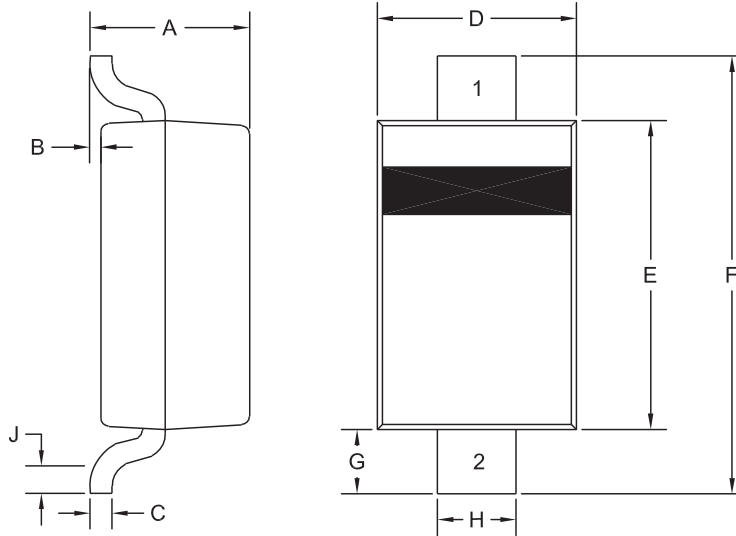
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=10\text{V}$		75	μA
I_R	$V_R=10\text{V}, T_A=100^\circ\text{C}$		5.0	mA
I_R	$V_R=20\text{V}$		250	μA
I_R	$V_R=20\text{V}, T_A=100^\circ\text{C}$		8.0	mA
V_F	$I_F=100\text{mA}$		300	mV
V_F	$I_F=100\text{mA}, T_A=100^\circ\text{C}$		220	mV
V_F	$I_F=500\text{mA}$		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

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SOD-123 CASE - MECHANICAL OUTLINE



R5

LEAD CODE

- 1) Cathode
- 2) Anode

MARKING CODE: C2L

DIMENSIONS				
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)