

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDH2-4L is a HIGH CURRENT, LOW V_F 40 volt Schottky diode packaged in a space saving SOD-323 surface mount case. This SUPERmini™ device has been designed for small signal general purpose applications when small size and operational efficiency are prime requirements.

MARKING CODE: S2L

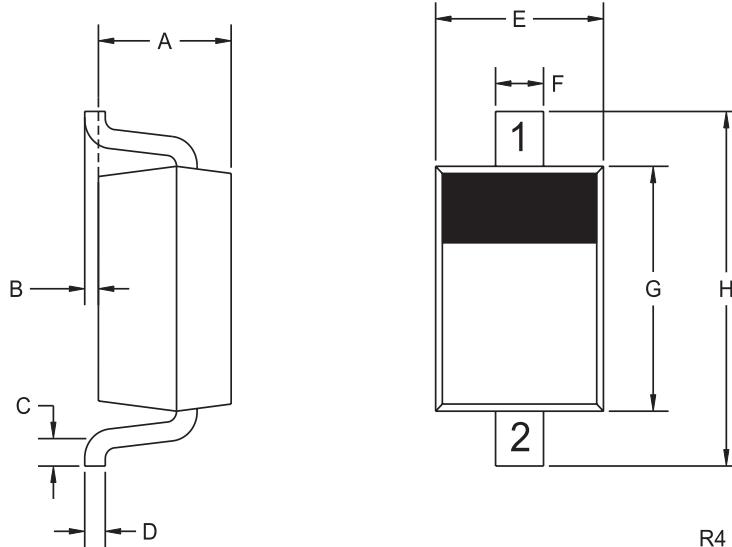
MAXIMUM RATINGS: ($T_A=25^\circ C$)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I_F	200	mA
Forward Surge Current, $t_p=1.0\text{ms}$	I_{FSM}	1.0	A
Power Dissipation	P_D	250	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ C$
Thermal Resistance	Θ_{JA}	500	$^\circ C/W$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=20V$		11	50	μA
BV_R	$I_R=100\mu A$	40	53		V
V_F	$I_F=10mA$		0.24	0.325	V
V_F	$I_F=100mA$		0.35	0.4	V
V_F	$I_F=200mA$		0.42	0.5	V
C_T	$V_R=4.0V, f=1.0MHz$		8.5	10	pF
t_{rr}	$I_F=I_R=10mA, I_{rr}=1.0mA, R_L=100\Omega$		4.0	5.0	ns

SOD-323 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

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SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	0.000	0.004	0.00	0.10
C	0.008	-	0.20	-
D	0.004	0.007	0.11	0.19
E	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
H	0.094	0.102	2.40	2.60

SOD-323 (REV: R4)

R1 (17-September 2004)