

**CMDSH2-4L**  
**SURFACE MOUNT**  
**HIGH CURRENT, LOW  $V_F$**   
**SILICON SCHOTTKY DIODE**

**SUPERmini™**



**SOD-323 CASE**

# Central™

## Semiconductor Corp.

### DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH2-4L 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**

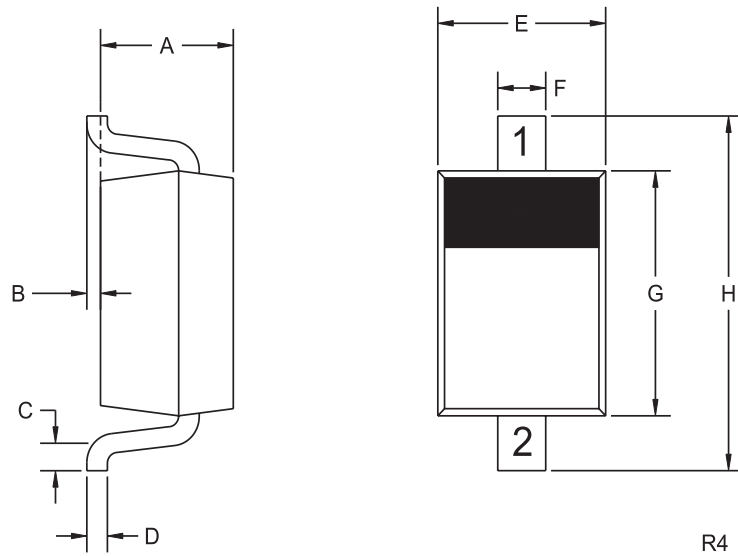
### MAXIMUM RATINGS: ( $T_A=25^\circ\text{C}$ )

	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	$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$	500	$^\circ\text{C/W}$

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

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

**SOD-323 CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Cathode
- 2) Anode

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<b>DIMENSIONS</b>				
<b>SYMBOL</b>	<b>INCHES</b>		<b>MILLIMETERS</b>	
	<b>MIN</b>	<b>MAX</b>	<b>MIN</b>	<b>MAX</b>
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)