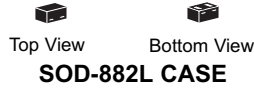




**CFSH2-4L**  
**SURFACE MOUNT**  
**SILICON SCHOTTKY DIODE**



# Central<sup>TM</sup>

## Semiconductor Corp.

**DESCRIPTION:**

The Central Semiconductor CFSH2-4L is a high quality Schottky Diode designed for applications where ultra small size and power dissipation are prime requirements. Packaged in a Tiny Leadless Package<sup>TM</sup> (TLP<sup>TM</sup>), this component provides performance characteristics suitable for the most demanding size constrained applications.

**MARKING CODE: N**

**FEATURES:**

- Device is **Halogen Free** by design
- Current ( $I_O=200mA$ )
- Low Forward Voltage Drop ( $V_F=0.53V$  TYP @ 200mA)
- Low Reverse Current (350nA TYP @ 40V)
- Small TLP<sup>TM</sup>, 1mm x 0.6mm x 0.4mm, ultra low profile, Leadless Surface Mount package.

**APPLICATIONS:**

- DC / DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered devices including Cell Phones, Digital Cameras, Pagers, PDAs, Laptop Computers, etc.

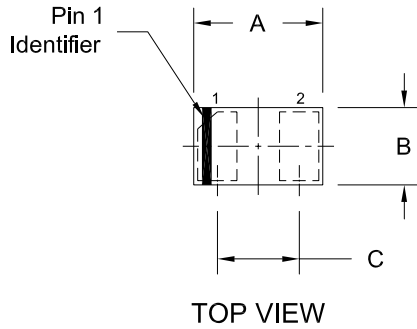
**MAXIMUM RATINGS:** ( $T_A=25^\circ C$ )

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
Average Forward Current	$I_O$	200	mA
Forward Surge Current, $t_p=8.3ms$	$I_{FSM}$	1.0	A
Power Dissipation	$P_D$	100	mW
Operating and Storage			
Junction Temperature	$T_J, T_{stg}$	-65 to +125	$^\circ C$
Thermal Resistance	$\theta_{JA}$	1000	$^\circ C/W$

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

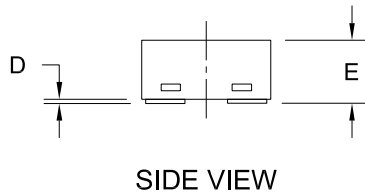
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=10V$		0.08	1.0	$\mu A$
$I_R$	$V_R=40V$		0.35	2.0	$\mu A$
$BV_R$	$I_R=10\mu A$	40			V
$V_F$	$I_F=10mA$		0.33	0.45	V
$V_F$	$I_F=100mA$			0.52	V
$V_F$	$I_F=200mA$		0.53	0.60	V
$C_T$	$V_R = 4.0V, f=1.0$ MHz		7.0	10	pF
$t_{rr}$	$I_F=I_R=10mA, I_{rr}=1.0mA, R_L=100\Omega$		5.0		ns

**SOD-882L CASE - MECHANICAL OUTLINE**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.041	0.95	1.05
B	0.022	0.026	0.55	0.65
C	0.026		0.65	
D	0.000	0.002	0.00	0.05
E	0.012	0.016	0.30	0.40
F	0.018	0.022	0.45	0.55
G	0.008	0.012	0.20	0.30

SOD-882L (REV:R0)



**LEAD CODE:**

- 1) CATHODE
- 2) ANODE

**MARKING CODE: N**

