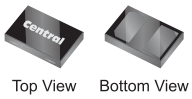
CFSH2-4L

SURFACE MOUNT
SILICON SCHOTTKY DIODE



Top View Bottom View

SOD-882L CASE

www.centralsemi.com

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™ (TLP™), this component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: N

APPLICATIONS:

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

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™, 1mm x 0.6mm x 0.4mm, ultra low profile, Leadless Surface Mount package.

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Average Forward Current	I_O	200	mA
Peak Forward Surge Current, tp=8.3ms	I_{FSM}	1.0	A
Power Dissipation	P_D	100	mW
Operating Junction Temperature	T_J	-65 to +125	°C
Storage Temperature	T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	1000	°C/W

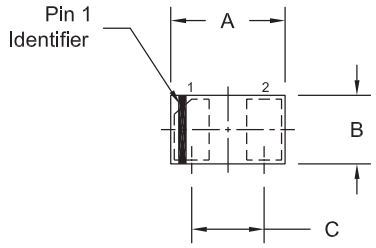
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_R	V_R=10V		0.08	1.0	μA
I_R	V_R=40V		0.35	2.0	μA
BV_R	I_R=10μA	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=1.0MHz		7.0	10	pF
t_{rr}	I_F=I_R=10mA, I_{rr}=1.0mA, R_L=100Ω		5.0		ns

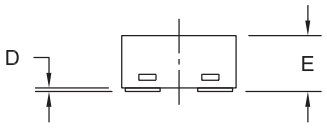
CFSH2-4L

SURFACE MOUNT
SILICON SCHOTTKY DIODE

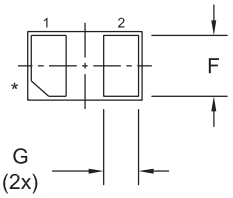
SOD-882L CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW



* Pin 1 chamfer may appear on any corner.

BOTTOM VIEW R2

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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:R2)

LEAD CODE:
1) Cathode
2) Anode

MARKING CODE: N