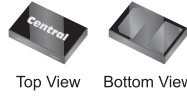


**CFSH2-3L**  
**SURFACE MOUNT**  
**SILICON SCHOTTKY DIODE**



[www.centrasemi.com](http://www.centrasemi.com)

**TLP** Tiny Leadless Package



Top View    Bottom View  
**SOD-882L CASE**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CFSH2-3L is a high quality Schottky Diode designed for applications where ultra small size and operational efficiency 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: T**

**APPLICATIONS:**

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

**FEATURES:**

- $V_R=30V$
- $I_O=200mA$
- Very Low Forward Voltage Drop ( $V_F=0.42V$  TYP @ 200mA)
- Reverse Current ( $4.0\mu A$  TYP @ 10V)
- Small TLP™, 1mm x 0.6mm x 0.4mm, ultra low profile, Leadless Surface Mount package.

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

Peak Repetitive Reverse Voltage  
Average Forward Current  
Peak Forward Surge Current,  $t_p=8.3ms$   
Power Dissipation  
Operating and Storage Junction Temperature  
Thermal Resistance

**SYMBOL**

SYMBOL		UNITS
$V_{RRM}$	30	V
$I_O$	200	mA
$I_{FSM}$	3.0	A
$P_D$	100	mW
$T_J, T_{stg}$	-65 to +150	$^\circ C$
$\theta_{JA}$	1,250	$^\circ C/W$

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

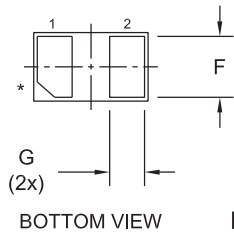
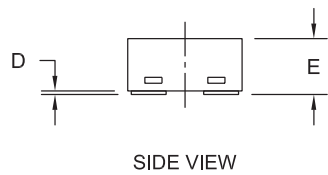
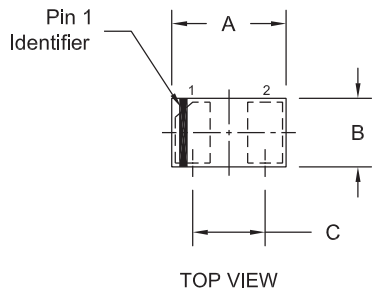
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=10V$		4.0	10	$\mu A$
$I_R$	$V_R=30V$		10	50	$\mu A$
$BV_R$	$I_R=500\mu A$	30			V
$V_F$	$I_F=0.1mA$		0.115	0.19	V
$V_F$	$I_F=1.0mA$		0.175	0.25	V
$V_F$	$I_F=10mA$		0.24	0.30	V
$V_F$	$I_F=100mA$		0.35	0.40	V
$V_F$	$I_F=200mA$		0.42	0.48	V
$C_T$	$V_R=4.0V, f=1.0MHz$		11	25	pF

R5 (26-April 2011)

**CFSH2-3L**  
**SURFACE MOUNT**  
**SILICON SCHOTTKY DIODE**



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



\* Pin 1 chamfer may appear on any corner.

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:R2)

**LEAD CODE:**

- 1) Cathode
- 2) Anode

**MARKING CODE: T**

R2

R5 (26-April 2011)