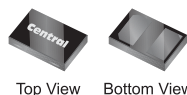


CFSH2-3L

**SURFACE MOUNT
SILICON SCHOTTKY DIODE**

TLP
Tiny
Leadless
Package



SOD-882L CASE



www.centralemi.com

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.

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

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

FEATURES:

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

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	$^{\circ}\text{C}$
Θ_{JA}	1,250	$^{\circ}\text{C/W}$

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

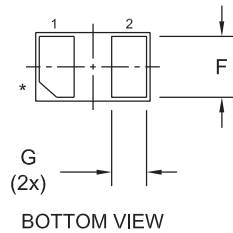
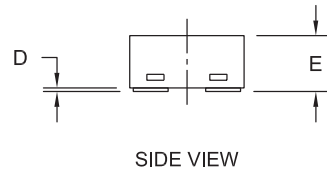
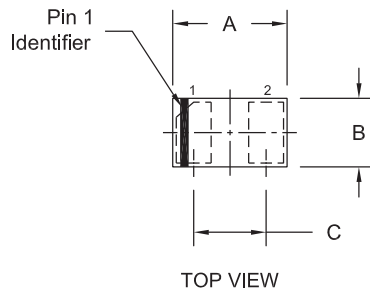
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=10\text{V}$		4.0	10	μA
I_R	$V_R=30\text{V}$		10	50	μA
BV_R	$I_R=500\mu\text{A}$	30			V
V_F	$I_F=0.1\text{mA}$		0.115	0.19	V
V_F	$I_F=1.0\text{mA}$		0.175	0.25	V
V_F	$I_F=10\text{mA}$		0.24	0.30	V
V_F	$I_F=100\text{mA}$		0.35	0.40	V
V_F	$I_F=200\text{mA}$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