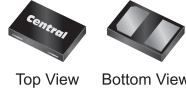


CFSH01-30L

SURFACE MOUNT SILICON
LOW V_F SCHOTTKY DIODE



SOD-882L CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFSH01-30L is a high quality Schottky Diode designed for applications where ultra small size and low forward voltage are prime requirements. This component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: Y

APPLICATIONS:

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

FEATURES:

- Current ($I_O=100\text{mA}$)
- Low Forward Voltage Drop ($V_F=300\text{mV TYP @ } 10\text{mA}$)
- Low Reverse Current ($1.3\mu\text{A TYP @ } 10\text{V}$)
- Small, Ultra Low Profile 1.0mm x 0.6mm x 0.4mm
Leadless Surface Mount package

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

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

SYMBOL

V_{RRM}	30
V_R	30
I_O	100
I_{FSM}	500
P_D	100
T_J	-65 to +125
T_{stg}	-65 to +150
Θ_{JA}	1000

UNITS

V
V
mA
mA
mW
$^\circ\text{C}$
$^\circ\text{C}$
$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=3.3\text{V}$		0.8	2.0	μA
I_R	$V_R=10\text{V}$		1.3	7.0	μA
BV_R	$I_R=100\mu\text{A}$	30			V
V_F	$I_F=5.0\mu\text{A}$		70	95	mV
V_F	$I_F=10\text{mA}$		300	370	mV
C_J	$V_R=0, f=1.0\text{MHz}$		4.0		pF

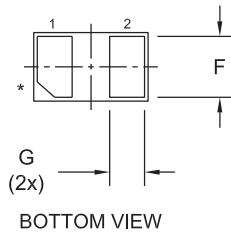
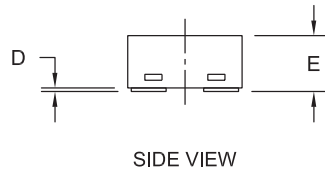
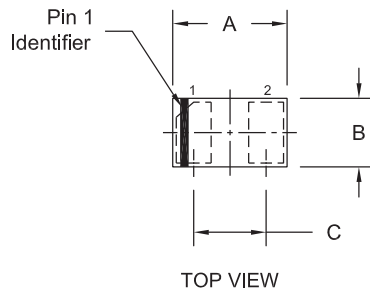
R4 (5-January 2015)

CFSH01-30L

SURFACE MOUNT SILICON
LOW V_F SCHOTTKY DIODE



SOD-882L CASE - MECHANICAL OUTLINE



* Pin 1 chamfer may
appear on any corner.

DIMENSIONS				
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: Y

R2

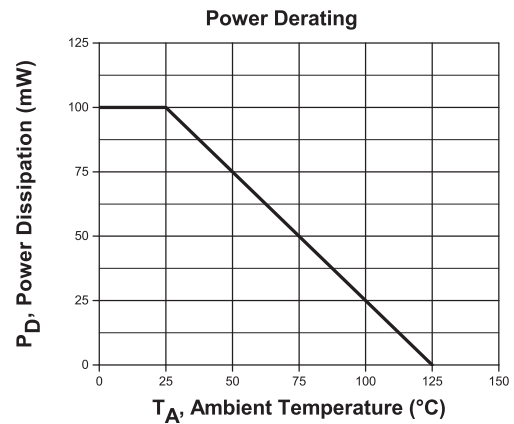
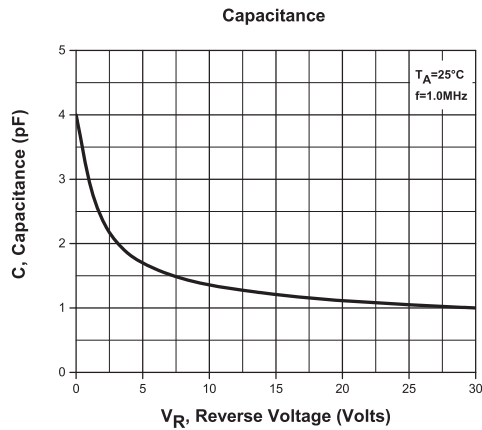
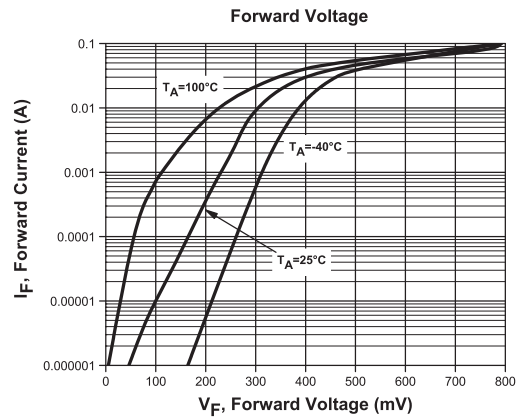
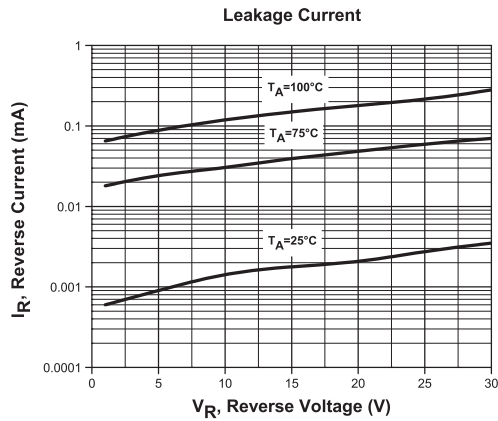
R4 (5-January 2015)

CFSH01-30L

SURFACE MOUNT SILICON
LOW V_F SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS



R4 (5-January 2015)

CFSH01-30L

SURFACE MOUNT SILICON
LOW V_F SCHOTTKY DIODE



SERVICES

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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In no event shall Central's aggregate liability from any warranty, indemnity, or other obligation arising out of or in connection with a purchase order or contract, or any use of any Central product provided hereunder, exceed the total amount paid to Central for the specific products sold under a purchase order or contract with respect to which losses or damages are claimed. The existence of more than one (1) claim against the specific products sold to Buyer under a purchase order or contract shall not enlarge or extend this limit.

Buyer understands and agrees that the foregoing liability limitations are essential elements of a purchase order or contract and that in the absence of such limitations, the material and economic terms of the purchase order or contract would be substantially different.

R4 (5-January 2015)