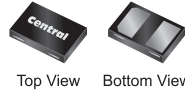


**CFSH2-3L****SURFACE MOUNT SILICON  
SCHOTTKY DIODE**
[www.centrasemi.com](http://www.centrasemi.com)
**SOD-882L CASE****DESCRIPTION:**

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 an SOD-882L package, 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, 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            | $V_{RRM}$      | 30          | V            |
| Average Forward Current                    | $I_O$          | 200         | mA           |
| Peak Forward Surge Current, $t_p=8.3ms$    | $I_{FSM}$      | 3.0         | A            |
| Power Dissipation                          | $P_D$          | 100         | mW           |
| Operating and Storage Junction Temperature | $T_J, T_{stg}$ | -65 to +150 | $^\circ C$   |
| Thermal Resistance                         | $\theta_{JA}$  | 1,250       | $^\circ C/W$ |

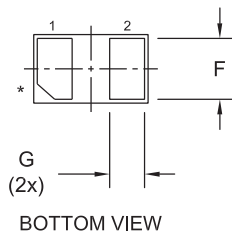
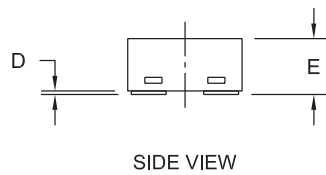
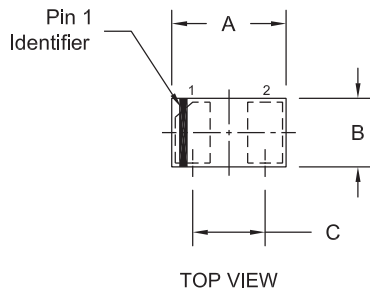
**SYMBOL****UNITS****ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ C$  unless otherwise noted)

| 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       |
| $C_J$  | $V_R=4.0V, f=1.0MHz$ |     | 11    | 25   | pF      |

**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**

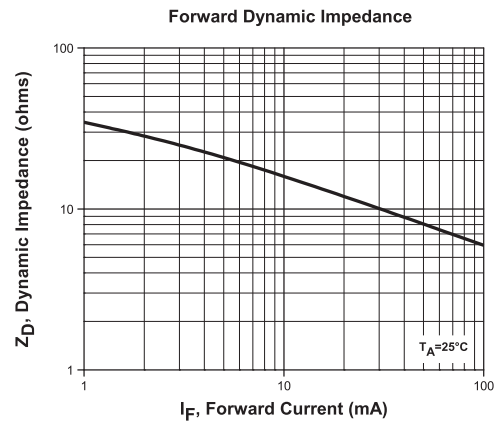
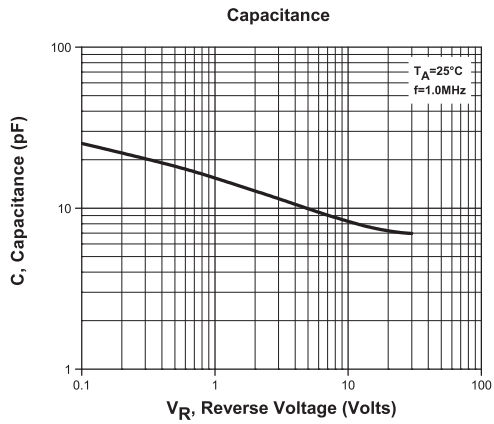
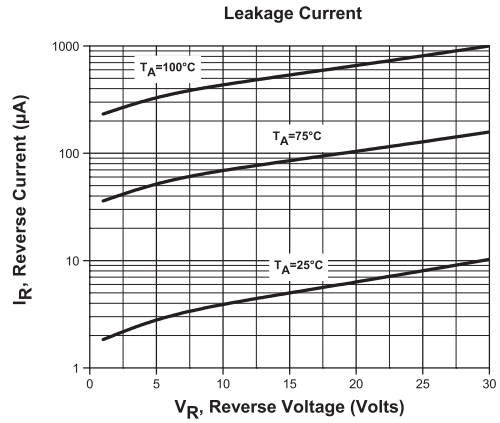
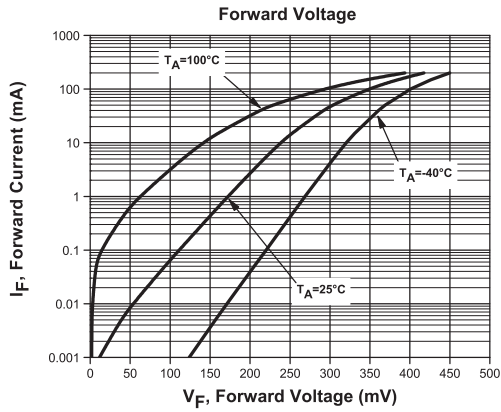
R2

R6 (28-September 2015)

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



**TYPICAL ELECTRICAL CHARACTERISTICS**

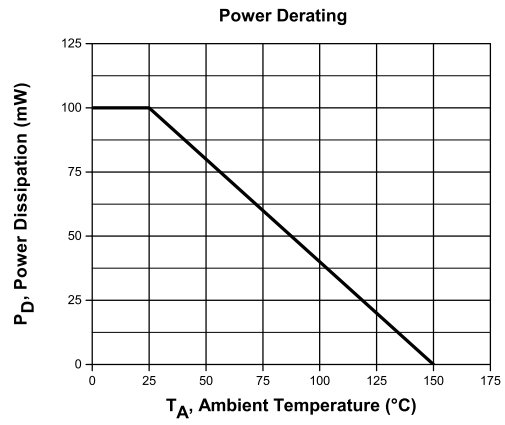
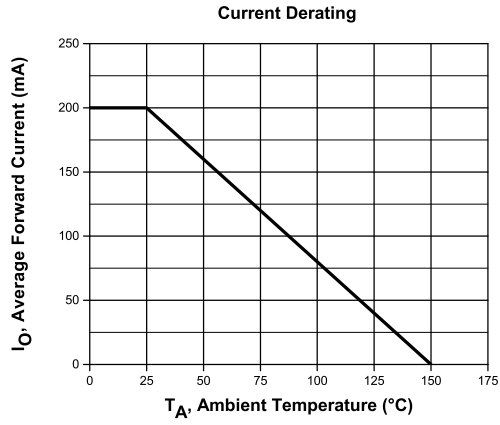


R6 (28-September 2015)

CFSH2-3L  
SURFACE MOUNT SILICON  
SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS



R6 (28-September 2015)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

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

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