

CFSH-4

SURFACE MOUNT SILICON
SCHOTTKY DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFSH-4 is a high quality Schottky diode designed for applications where ultra small size and power dissipation are prime requirements. Packaged in the space saving SOD-882L surface mount package, this component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: L



Top View Bottom View

SOD-882L CASE

APPLICATIONS:

- DC-DC converters
- Voltage clamping
- Protection circuits
- Battery powered applications including cell phones, digital cameras, pagers, PDAs, laptop computers, etc.

MAXIMUM RATINGS: (T_A=25°C)

Peak Repetitive Reverse Voltage

| SYMBOL | | UNITS |
|------------------|-------------|-------|
| V _{RRM} | 40 | V |
| I _O | 200 | mA |
| I _{FSM} | 600 | mA |
| P _D | 100 | mW |
| T _J | -65 to +125 | °C |
| T _{stg} | -65 to +150 | °C |
| θ _{JA} | 1000 | °C/W |

Average Forward Current

Peak Forward Surge Current, t_p=8.3ms

Power Dissipation

Operating Junction Temperature

Storage Temperature

Thermal Resistance

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

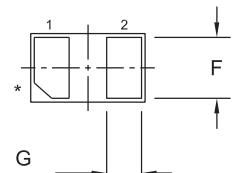
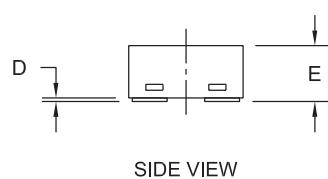
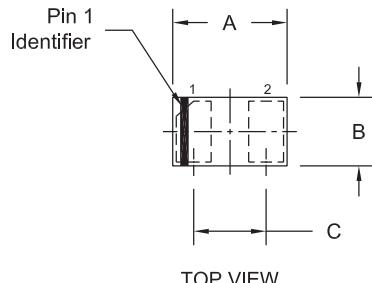
| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------------|---|-----|------|------|-------|
| I _R | V _R =30V | | 25 | 200 | nA |
| BV _R | I _R =10μA | 40 | | | V |
| V _F | I _F =1.0mA | | 0.35 | 0.38 | V |
| V _F | I _F =15mA | | 0.55 | 0.65 | V |
| V _F | I _F =40mA | | 0.77 | 1.00 | V |
| C _J | V _R =0, f=1.0MHz | | | 5.0 | pF |
| t _{rr} | I _F =I _R =10mA, I _r =1.0mA, R _L =100Ω | | | 5.0 | ns |

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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

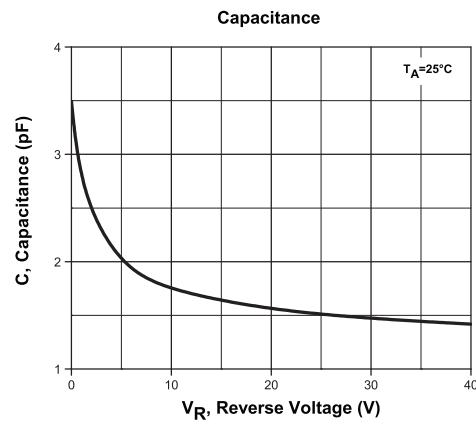
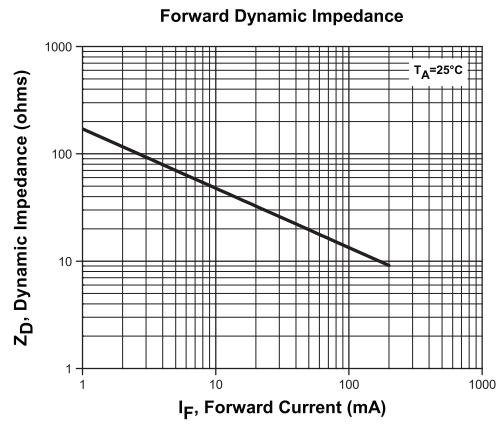
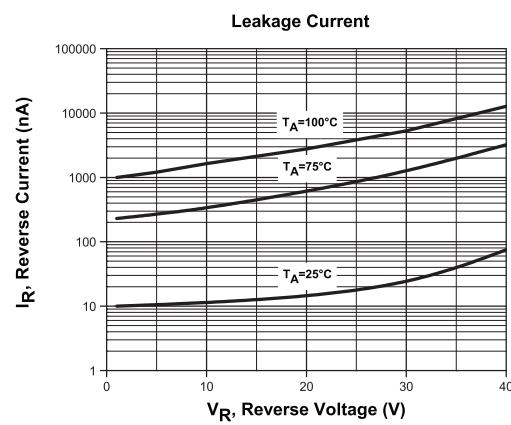
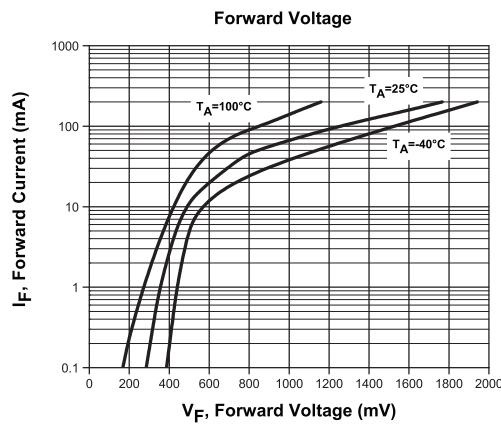
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TYPICAL ELECTRICAL CHARACTERISTICS



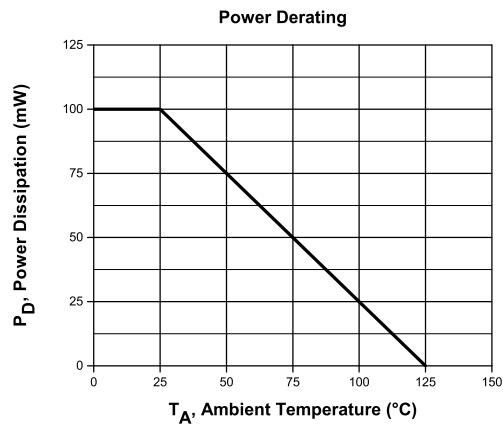
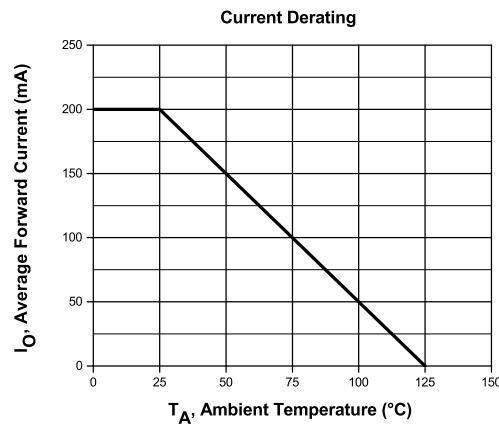
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TYPICAL ELECTRICAL CHARACTERISTICS



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R5 (3-August 2015)

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