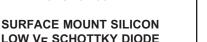
LOW VF SCHOTTKY DIODE





www.centralsemi.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





SOD-882L CASE

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=100mA)
- Low Forward Voltage Drop (V_F=300mV TYP @ 10mA)
- Low Reverse Current (1.3µA TYP @ 10V)
- Small, Ultra Low Profile 1.0mm x 0.6mm x 0.4mm Leadless Surface Mount package

| MAXIMUM RATINGS: (T _A =25°C) | SYMBOL | | UNITS |
|---|------------------|-------------|-------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 30 | V |
| DC Blocking Voltage | v_R | 30 | V |
| Average Forward Current | IO | 100 | mA |
| Peak Forward Surge Current, tp=8.3ms | ^I FSM | 500 | mA |
| Power Dissipation | P_{D} | 100 | mW |
| Operating Junction Temperature | TJ | -65 to +125 | °C |
| Storage Temperature | T _{stg} | -65 to +150 | °C |
| Thermal Resistance | Θ_{JA} | 1000 | °C/W |

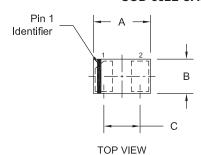
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

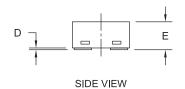
| SYMBOL | TEST CONDITIONS | MIN | ΤΫ́Ρ | MAX | UNITS |
|---------|-----------------------------|-----|------|-----|-------|
| I_{R} | V _R =3.3V | | 0.8 | 2.0 | μΑ |
| I_{R} | V _R =10V | | 1.3 | 7.0 | μΑ |
| BV_R | I _R =100μA | 30 | | | V |
| V_{F} | I _F =5.0μA | | 70 | 95 | mV |
| V_{F} | I _F =10mA | | 300 | 370 | mV |
| СЈ | V _R =0, f=1.0MHz | | 4.0 | | pF |

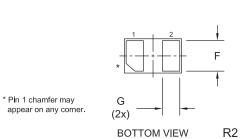
SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE



SOD-882L CASE - MECHANICAL OUTLINE







| | HES | NATE LINA | | |
|-------|---|---|--|--|
| | | MILLIMETERS | | |
| MIN | MAX | MIN | MAX | |
| 0.037 | 0.041 | 0.95 | 1.05 | |
| 0.022 | 0.026 | 0.55 | 0.65 | |
| 0.026 | | 0.65 | | |
| 0.000 | 0.002 | 0.00 | 0.05 | |
| 0.012 | 0.016 | 0.30 | 0.40 | |
| 0.018 | 0.022 | 0.45 | 0.55 | |
| 0.008 | 0.012 | 0.20 | 0.30 | |
| | 0.037 0.022 0.00 0.000 0.012 0.018 | 0.037 0.041 0.022 0.026 0.006 0.002 0.012 0.016 0.018 0.022 | 0.037 0.041 0.95 0.022 0.026 0.55 0.026 0.0 0.0 0.000 0.002 0.00 0.012 0.016 0.30 0.018 0.022 0.45 | |

SOD-882L (REV:R2)

LEAD CODE:

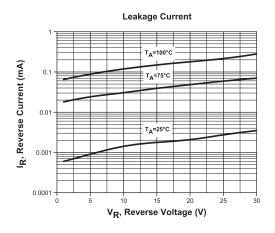
- 1) Cathode 2) Anode

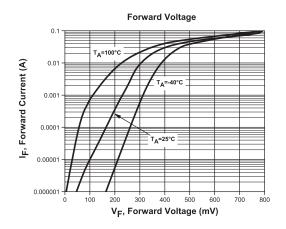
MARKING CODE: Y

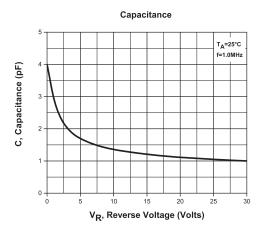
SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE

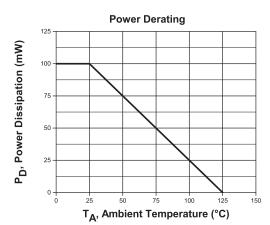


TYPICAL ELECTRICAL CHARACTERISTICS













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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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)