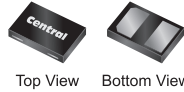


CFSH2-4L

**SURFACE MOUNT SILICON
SCHOTTKY DIODE**



Top View Bottom View
SOD-882L CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFSH2-4L is a high quality Schottky diode designed for applications where ultra small size and power dissipation are prime requirements. Packaged in an SOD-882L package, this component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: N

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 Junction Temperature
Storage Temperature
Thermal Resistance

FEATURES:

- Device is **Halogen Free** by design
- Current ($I_O=200\text{mA}$)
- Low Forward Voltage Drop ($V_F=0.53\text{V TYP @ }200\text{mA}$)
- Low Reverse Current ($350\text{nA TYP @ }40\text{V}$)
- Small $1\text{mm} \times 0.6\text{mm} \times 0.4\text{mm}$, ultra low profile, Leadless Surface Mount package.

SYMBOL		UNITS
V_{RRM}	40	V
I_O	200	mA
I_{FSM}	1.0	A
P_D	100	mW
T_J	-65 to +125	$^{\circ}\text{C}$
T_{stg}	-65 to +150	$^{\circ}\text{C}$
θ_{JA}	1000	$^{\circ}\text{C/W}$

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

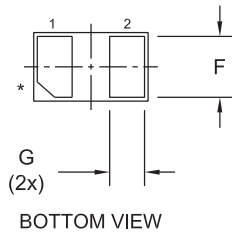
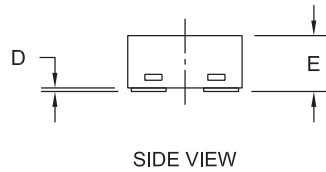
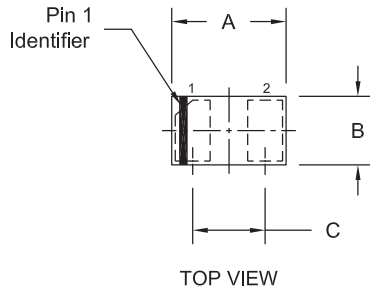
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=10\text{V}$		0.08	1.0	μA
I_R	$V_R=40\text{V}$		0.35	2.0	μA
BV_R	$I_R=10\mu\text{A}$	40			V
V_F	$I_F=10\text{mA}$		0.33	0.45	V
V_F	$I_F=100\text{mA}$			0.52	V
V_F	$I_F=200\text{mA}$		0.53	0.60	V
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$		7.0	10	pF
t_{rr}	$I_F=I_R=10\text{mA}$, $I_{rr}=1.0\text{mA}$, $R_L=100\Omega$		5.0		ns

R6 (17-September 2015)

CFSH2-4L
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: N

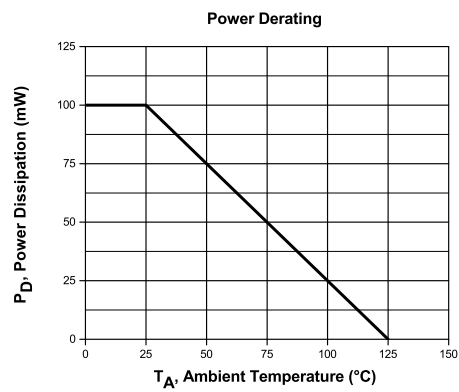
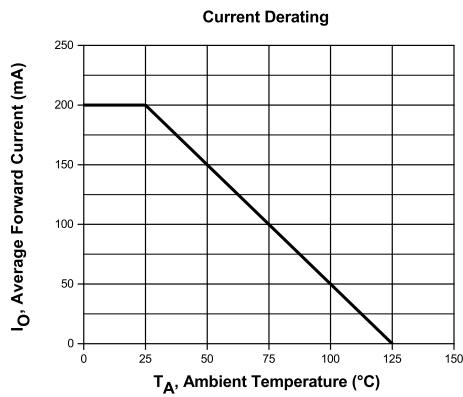
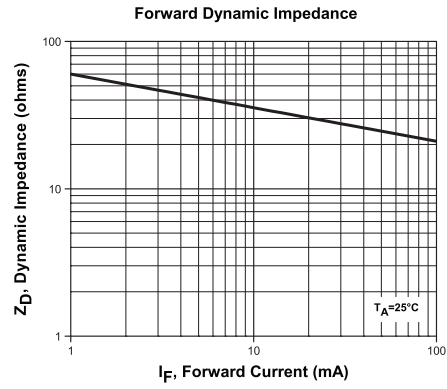
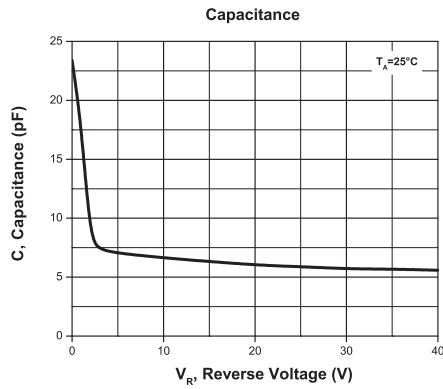
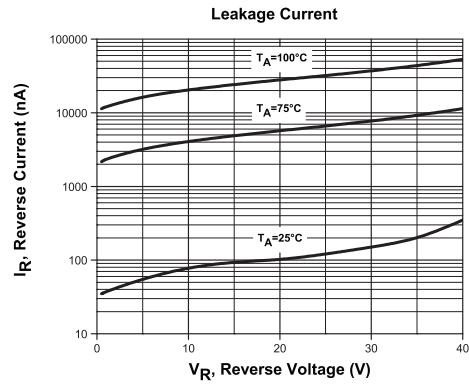
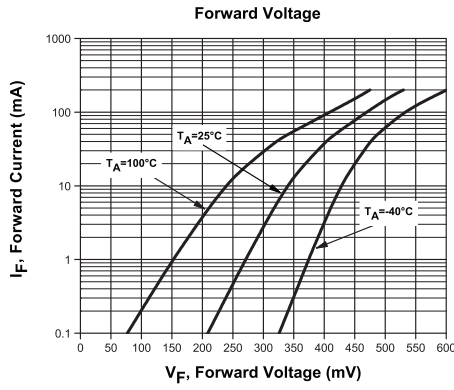
R2

R6 (17-September 2015)

CFSH2-4L
SURFACE MOUNT SILICON
SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS



R6 (17-September 2015)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd 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

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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