

CFSH-4

SURFACE MOUNT SILICON SCHOTTKY DIODE



www.centrasemi.com



SOD-882L CASE

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

FEATURES:

- Device is **Halogen Free** by design
- Current ($I_O=200mA$)
- Low forward voltage drop ($V_F=0.35V$ TYP @ 1.0mA)
- Low reverse current (25nA TYP @ 30V)
- Extremely fast switching (5.0ns MAX)
- Small 1mm x 0.6mm x 0.4mm, SOD-882L, ultra low profile, leadless surface mount package.

APPLICATIONS:

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

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

Peak Repetitive Reverse Voltage
 Average Forward Current
 Peak Forward Surge Current, $t_p=8.3ms$
 Power Dissipation
 Operating Junction Temperature
 Storage Temperature
 Thermal Resistance

SYMBOL

SYMBOL	UNITS
V_{RRM}	40 V
I_O	200 mA
I_{FSM}	600 mA
P_D	100 mW
T_J	-65 to +125 $^\circ C$
T_{stg}	-65 to +150 $^\circ C$
θ_{JA}	1000 $^\circ C/W$

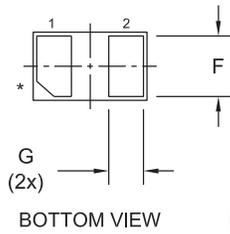
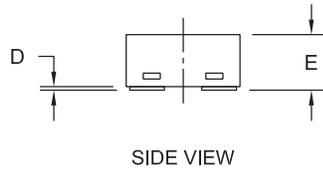
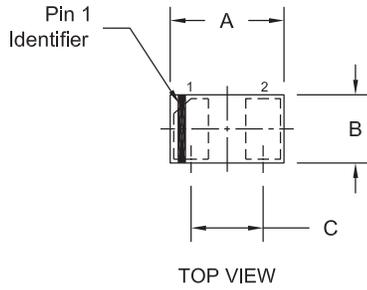
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ C$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=30V$		25	200	nA
BV_R	$I_R=10\mu A$	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}	$I_F=I_R=10mA, I_{rr}=1.0mA, R_L=100\Omega$			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

MARKING CODE: L

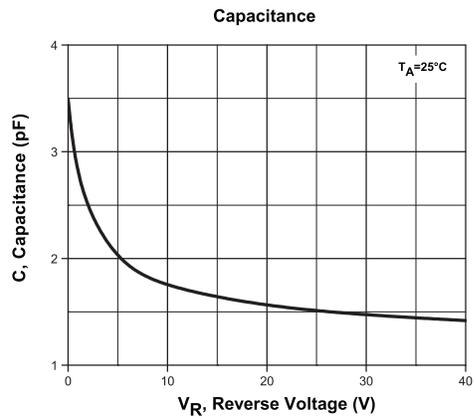
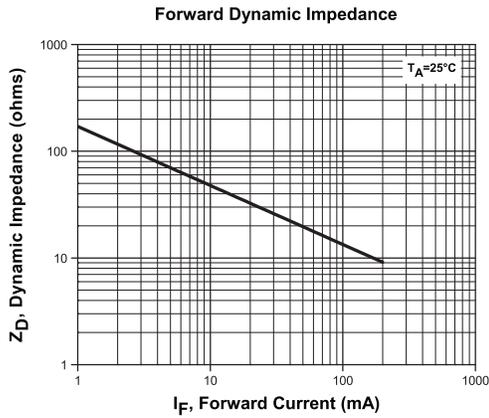
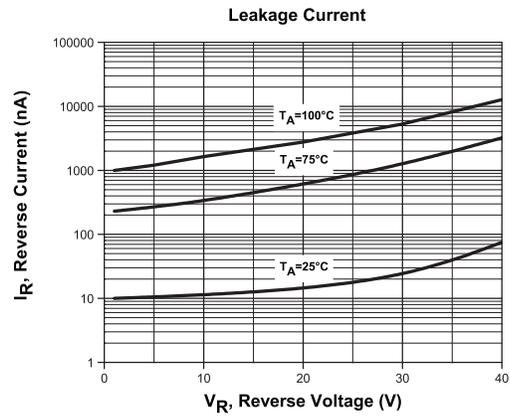
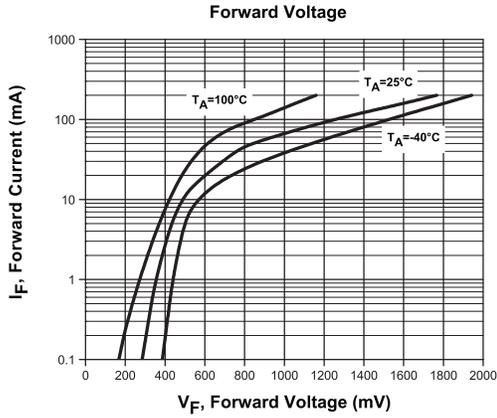
R2

R5 (3-August 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS

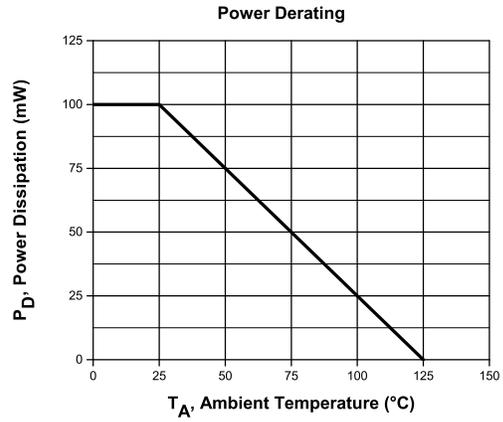
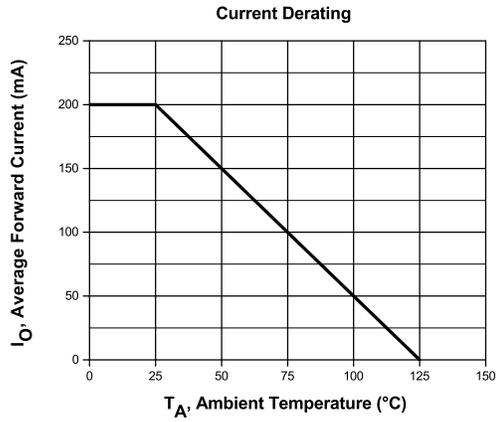


R5 (3-August 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



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R5 (3-August 2015)



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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