CFSH2-3L

SURFACE MOUNT SILICON SCHOTTKY DIODE

Top View Bottom View

SOD-882L CASE

www.centralsemi.com

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 (4.0µA TYP @ 10V)
- Small, 1mm x 0.6mm x 0.4mm, ultra low profile, leadless surface mount package.

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Forward Current	I_O	200	mA
Peak Forward Surge Current, tp=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	°C
Thermal Resistance	Θ_{JA}	1,250	°C/W

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

SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_R	V_R=10V		4.0	10	µA
I_R	V_R=30V		10	50	µA
BV_R	I_R=500µA	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

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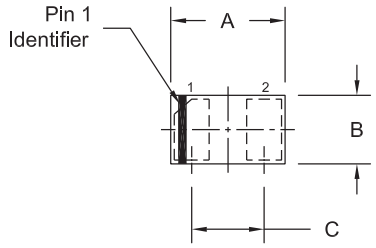
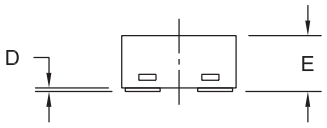
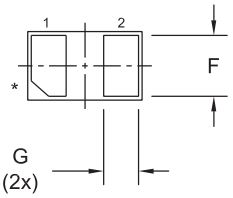
SOD-882L CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW



* Pin 1 chamfer may appear on any corner.

BOTTOM VIEW R2

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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

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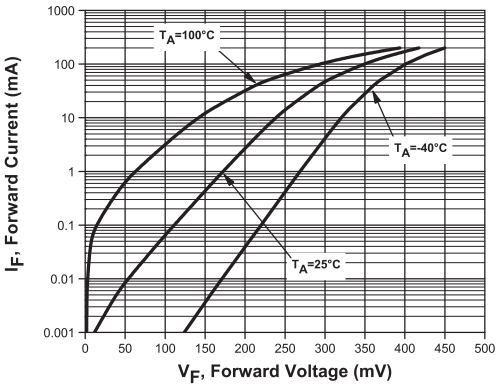
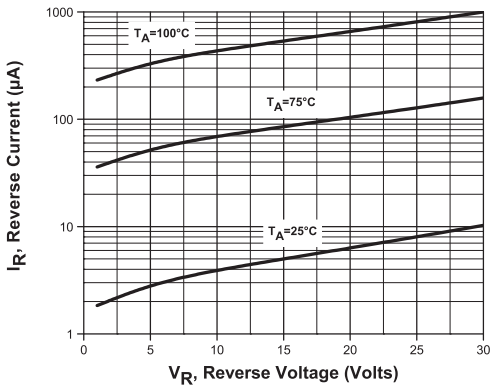
TYPICAL ELECTRICAL CHARACTERISTICS

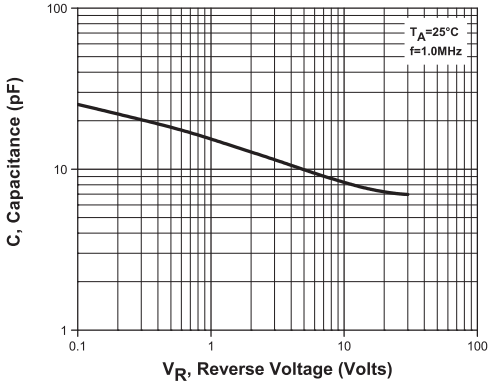
Forward Voltage



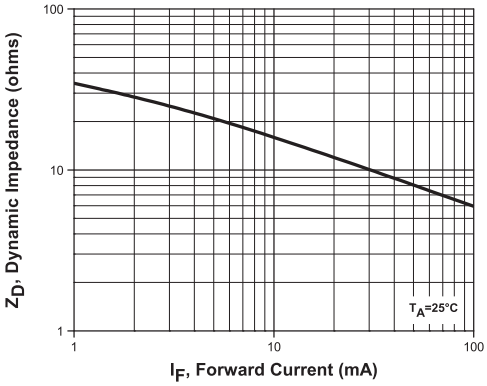
Leakage Current



Capacitance



Forward Dynamic Impedance



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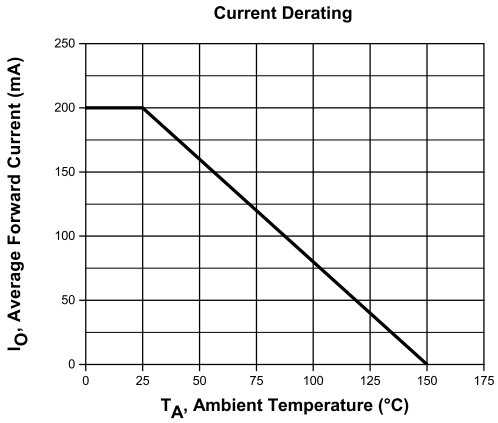
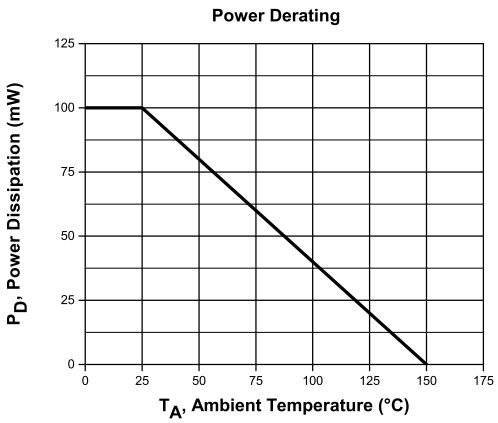
TYPICAL ELECTRICAL CHARACTERISTICS





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).

CONTACT US

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