

#### SURFACE MOUNT SILICON SCHOTTKY DIODE



# **APPLICATIONS:**

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

LEILIU
Semiconductor Corp.

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

#### FEATURES:

- V<sub>R</sub>=30V
- I<sub>O</sub>=200mA
- Very low forward voltage drop (V<sub>F</sub>=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 <sub>A</sub> =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Average Forward Current	Ι <sub>Ο</sub>	200	mA
Peak Forward Surge Current, tp=8.3ms	IFSM	3.0	А
Power Dissipation	PD	100	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	$\Theta_{JA}$	1,250	°C/W

#### ELECTRICAL CHARACTERISTICS: (T<sub>A</sub>=25°C unless otherwise noted)

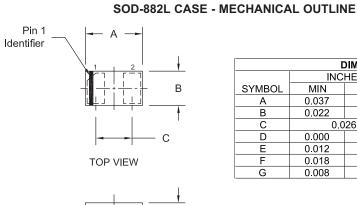
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V <sub>R</sub> =10V		4.0	10	μA
I <sub>R</sub>	V <sub>R</sub> =30V		10	50	μΑ
BVR	Ι <sub>R</sub> =500μΑ	30			V
VF	I <sub>F</sub> =0.1mA		0.115	0.19	V
V <sub>F</sub>	I <sub>F</sub> =1.0mA		0.175	0.25	V
V <sub>F</sub>	I <sub>F</sub> =10mA		0.24	0.30	V
VF	I <sub>F</sub> =100mA		0.35	0.40	V
V <sub>F</sub>	I <sub>F</sub> =200mA		0.42	0.48	V
СЈ	V <sub>R</sub> =4.0V, f=1.0MHz		11	25	pF

R6 (28-September 2015)



CFSH2-3L

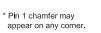
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DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.037	0.041	0.95	1.05
В	0.022	0.026	0.55	0.65
С	0.026		0.65	
D	0.000	0.002	0.00	0.05
E	0.012	0.016	0.30	0.40
F	0.018	0.022	0.45	0.55
G	0.008	0.012	0.20	0.30
SOD-882L (REV:R2)				

1) Cathode 2) Anode

MARKING CODE: T



R2

Е

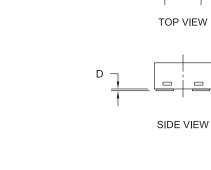
F

BOTTOM VIEW

G (2x)

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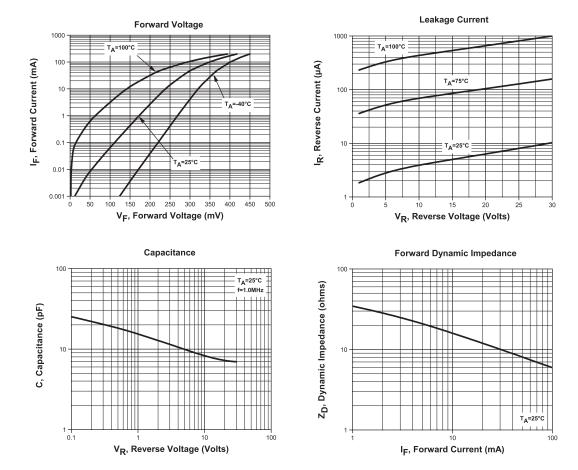
	E	0.012	0.016	
	F	0.018	0.022	
	G	0.008	0.012	
LEAD CODE:				
	<ol> <li>Catho</li> </ol>	de		

Downloaded from Arrow.com.



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# TYPICAL ELECTRICAL CHARACTERISTICS

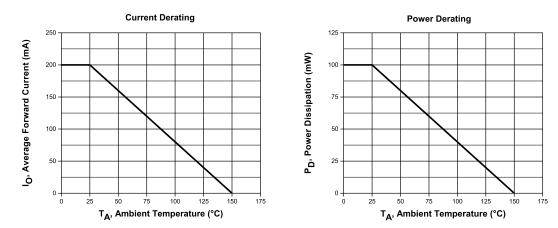
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#### TYPICAL ELECTRICAL CHARACTERISTICS

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# 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

# DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

· Custom bar coding for shipments

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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