

SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE



APPLICATIONS:

- DC-DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered applications including Cell Phones, Digital Cameras, Pagers, PDAs, Laptop Computers, etc.



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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

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	IFSM	500	mA
Power Dissipation	PD	100	mW
Operating Junction Temperature	ТЈ	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	1000	°C/W

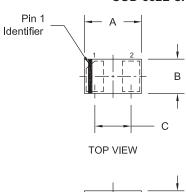
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)								
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
I _R	V _R =3.3V		0.8	2.0	μΑ			
IR	V _R =10V		1.3	7.0	μΑ			
BVR	I _R =100μA	30			V			
V _F	Ι _Ε =5.0μΑ		70	95	mV			
V _F	I _F =10mA		300	370	mV			
CJ	V _R =0, f=1.0MHz		4.0		pF			

R4 (5-January 2015)



CFSH01-30L

SURFACE MOUNT SILICON LOW VF SCHOTTKY DIODE



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SIDE VIEW

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)						

LEAD CODE:

1) Cathode 2) Anode

MARKING CODE: Y





Е

F

D

BOTTOM VIEW R2

R4 (5-January 2015)

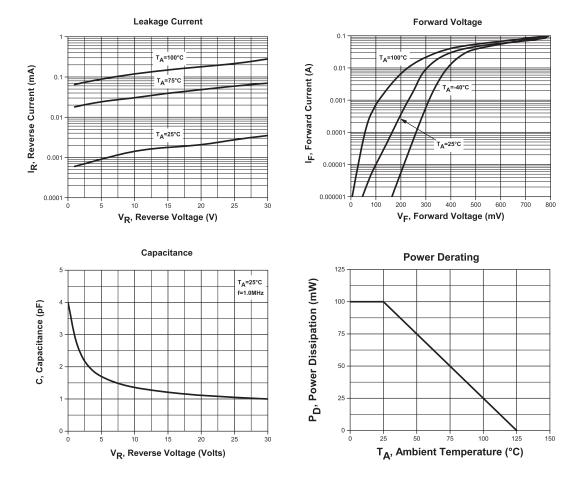
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SOD-882L CASE - MECHANICAL OUTLINE



CFSH01-30L

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TYPICAL ELECTRICAL CHARACTERISTICS

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R4 (5-January 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

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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- 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).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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