

SURFACE MOUNT SILICON LOW VF SCHOTTKY DIODE 0.5 AMP, 20 VOLT



APPLICATIONS:

- DC-DC converters
- Voltage clamping
- Protection circuits
- Battery powered hand-held applications including cell phones, digital cameras, tablets and laptop computers



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFSH05-20L is a silicon Schottky diode designed for applications where ultra small package size and energy efficiency are prime requirements. Packaged in the SOD-882L ultra low profile leadless case, this device provides exceptionally low forward voltage characteristics suitable for the most demanding size constrained battery powered applications.

MARKING CODE: 2

FEATURES:

- Current (I_O=500mA)
- Low forward voltage drop (V_F=220mV TYP @ 10mA)
- Low reverse current (8.0µA TYP @ 10V)
- Small, ultra low profile 1.0mm x 0.6mm x 0.4mm TLP $^{\rm TM}$ leadless surface mount package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	20	V
DC Blocking Voltage	V _R	20	V
Average Forward Current	IO	500	mA
Peak Forward Surge Current, tp=8.3ms	IFSM	3.0	А
Power Dissipation	PD	100	mW
Operating and Storage Junction Temperature	т _Ј , т _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	1000	°C/W

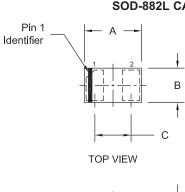
ELECTRICAI SYMBOL	L CHARACTERISTICS: (T _A =25°C un TEST CONDITIONS	less otherwise MIN	noted) TYP	МАХ	UNITS
I _R	V _R =10V		8.0	30	μΑ
BVR	I _R =500μΑ	20			V
V _F	I _F =0.1mA		100	180	mV
V _F	I _F =1.0mA		160	240	mV
V _F	I _F =10mA		220	290	mV
V _F	I _F =100mA		310	380	mV
V _F	I _F =500mA		450	500	mV
CJ	V _R =1.0V, f=1.0MHz		21	30	pF

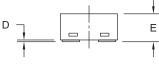
R2 (25-April 2013)



SURFACE MOUNT SILICON LOW VF SCHOTTKY DIODE 0.5 AMP, 20 VOLT







G (2x)

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)						

SOD-882L (REV:R2)

LEAD CODE:

1) Cathode 2) Anode

MARKING CODE: 2



R2

F

BOTTOM VIEW

R2 (25-April 2013)

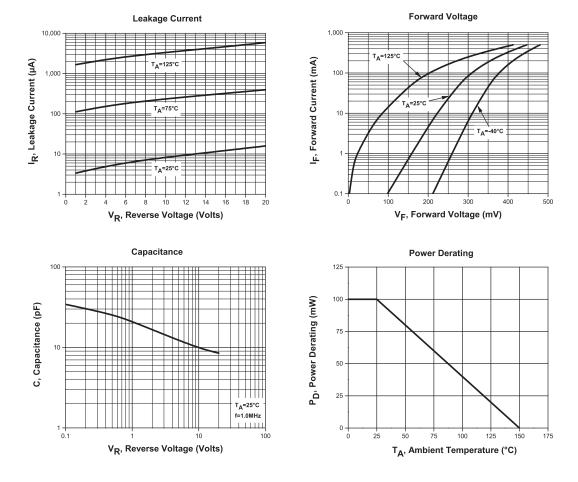
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SOD-882L CASE - MECHANICAL OUTLINE



CFSH05-20L

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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 (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

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