CFSH05-20L

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





www.centralsemi.com

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

APPLICATIONS:

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

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™ 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	Α
Power Dissipation	P_{D}	100	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	1000	°C/W

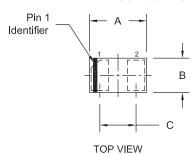
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted) TYP **TEST CONDITIONS** MAX **UNITS** SYMBOL MIN **V_R=10V** 8.0 30 μΑ I_R BV_{R} I_R=500μA 20 ٧ V_{F} I_F=0.1mA 100 180 mV V_{F} I_F=1.0mA 160 240 mV ٧F I_F=10mA 220 290 mV I_F=100mA 310 380 ٧F mV V_{F} I_F=500mA 450 500 mV V_R=1.0V, f=1.0MHz pF C_J 21 30

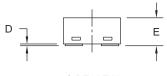
CFSH05-20L

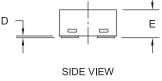
SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE 0.5 AMP, 20 VOLT

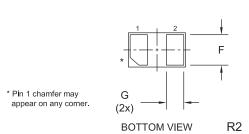


SOD-882L CASE - MECHANICAL OUTLINE









	HES	NATE LINA		
	INCHES		MILLIMETERS	
MIN	MAX	MIN	MAX	
0.037	0.041	0.95	1.05	
0.022	0.026	0.55	0.65	
0.026		0.65		
0.000	0.002	0.00	0.05	
0.012	0.016	0.30	0.40	
0.018	0.022	0.45	0.55	
0.008	0.012	0.20	0.30	
	0.037 0.022 0.00 0.000 0.012 0.018	0.037 0.041 0.022 0.026 0.006 0.002 0.012 0.016 0.018 0.022	0.037 0.041 0.95 0.022 0.026 0.55 0.026 0.0 0.0 0.000 0.002 0.00 0.012 0.016 0.30 0.018 0.022 0.45	

SOD-882L (REV:R2)

LEAD CODE:

- 1) Cathode 2) Anode

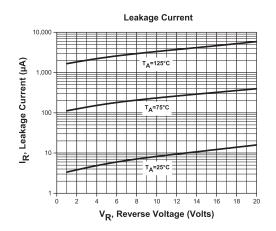
MARKING CODE: 2

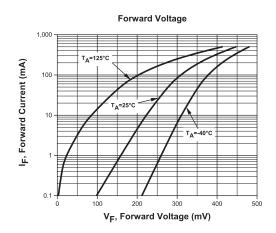
CFSH05-20L

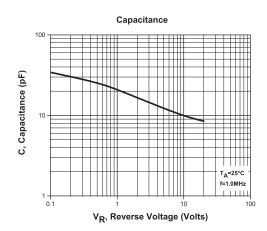
SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE 0.5 AMP, 20 VOLT

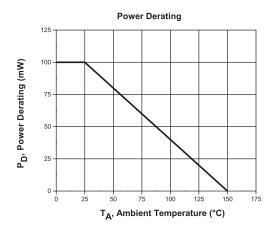


TYPICAL ELECTRICAL CHARACTERISTICS









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

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110

Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (000)