CFSH05-20L

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



Semiconductor

DESCRIPTION:

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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	I _{FSM}	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

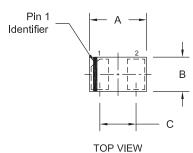
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted) TYP **TEST CONDITIONS** MAX **UNITS** SYMBOL MIN **V_R=10V** 8.0 30 μΑ I_R BV_{R} I_R=500μA 20 ٧ V_{F} I_F=0.1mA 100 180 mV V_{F} I_F=1.0mA 160 240 mV ٧F I_F=10mA 220 290 mV I_F=100mA 310 380 ٧F mV V_{F} I_F=500mA 450 500 mV V_R=1.0V, f=1.0MHz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

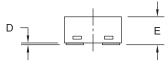
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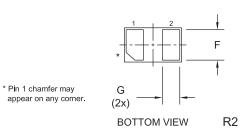


SOD-882L CASE - MECHANICAL OUTLINE









DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.037	0.041	0.95	1.05		
В	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

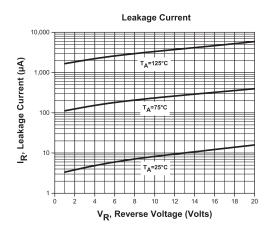
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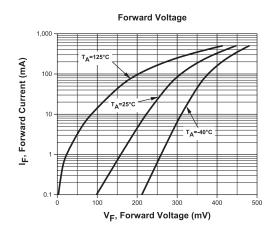
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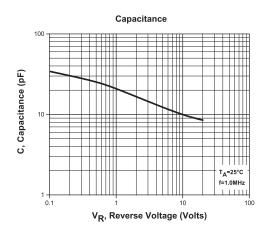
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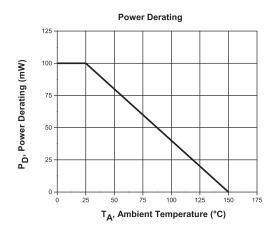


TYPICAL ELECTRICAL CHARACTERISTICS









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 guick 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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