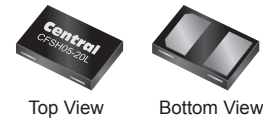


CFSH05-20L

20V, 0.5A Low V_F Schottky Diode in the ultra miniature SOD-882L package

SOD-882L



Central Semiconductor's **CFSH05-20L** is a 20V, 500mA 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.

Features:

- Current ($I_O = 500\text{mA}$)
- Low forward voltage drop ($V_F = 220\text{mV TYP @ } 10\text{mA}$)
- Low reverse current ($8.0\mu\text{A TYP @ } 10\text{V}$)

Applications:

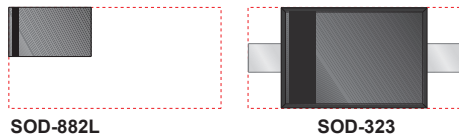
- DC-DC conversion
- Voltage clamping
- Circuit protection
- Battery power management

Benefits:

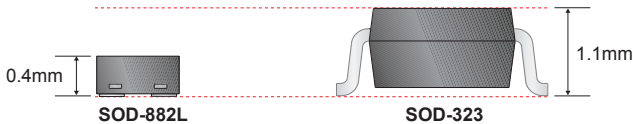
- Energy efficiency
- Space saving low profile package (0.4mm MAX)

Package Size and Comparison:

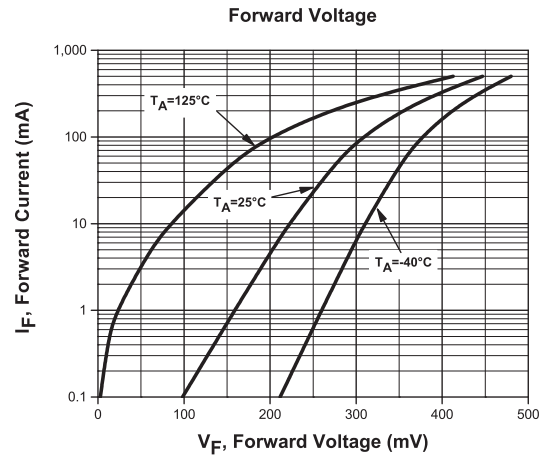
The SOD-882L utilizes **81%** less board space than the SOD-323



The SOD-882L has a **60%** lower profile than the SOD-323



Typical Electrical Characteristics



Samples



To request samples visit:
www.centrasemi.com/info/CFSH05-20L

Weblink:

Use QR reader for direct link to product web page,
 or use: www.centrasemi.com/CFSH05-20L

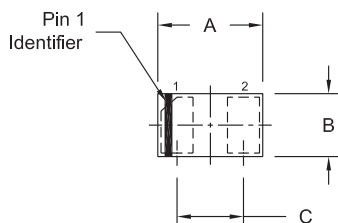


Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)				Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)					
V_{RRM}	I_O	T_J, T_{stg}	I_{FSM}	V_F		@ I_F	I_R		@ V_R
(V) MAX	(mA) MAX	($^\circ\text{C}$) MAX	(A) MAX	(mV) TYP	(mV) MAX	(mA)	(μA) TYP	(μA) MAX	(V)
20	500	-65 to +150	3.0	100	180	0.1	8.0	30	10
				160	240	1.0			
				220	290	10			
				310	380	100			
				450	500	500			

CFSH05-20L

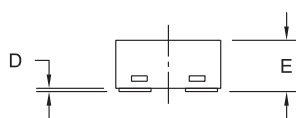
20V, 0.5A Low V_F Schottky Diode in the ultra miniature SOD-882L package

Mechanical Drawing - SOD-882L



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.041	0.95	1.05
B	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)

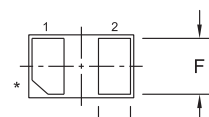


SIDE VIEW

Lead Code:

- 1) Cathode
- 2) Anode

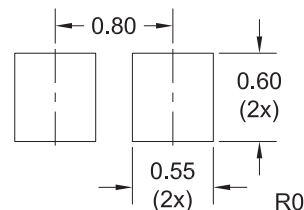
Marking Code: 2



BOTTOM VIEW R2

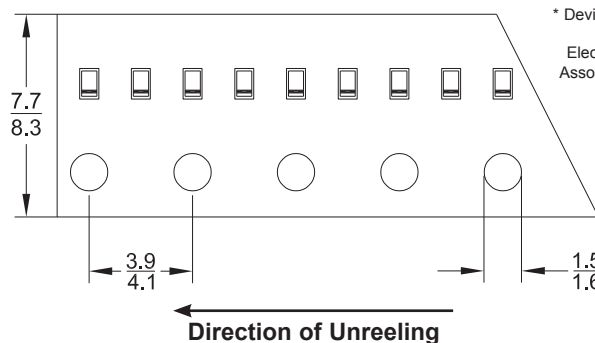
* Pin 1 chamfer may appear on any corner.

Mounting Pad Geometry (Dimensions in mm)



Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 8mm



* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
7"	8,000	CFSH05-20L TR

Literature



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Reel Packing Information

Reel Size	Reels per Box (Max)	Parts per Box (Max)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	9	72,000	9x9x5	23x23x13	3	2
	18	144,000	9x9x9	23x23x23	6	3
	40	320,000	21x9x9	53x23x23	13	6
	108	864,000	27x9x17	69x23x43	34	16

Sample devices available upon request. To order samples visit: www.centrasemi.com/info/CFSH05-20L



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(631) 435-1110 or visit:
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