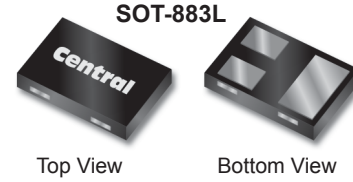


CEDM7001 (N-Channel) CEDM8001 (P-Channel)

20V, 100mA, MOSFETs in the ultra miniature SOT-883L package



The Central Semiconductor CEDM7001 (N-Channel) and complementary CEDM8001 (P-Channel) are single 20V, 100mA MOSFETs packaged in the ultra miniature, low profile SOT-883L surface mount case. These devices have a rated continuous drain current of 100mA and a peak drain current of 200mA ($t_p < 10\mu s$). Both devices have an outstanding low minimum gate threshold voltage of 0.6V and $r_{DS(ON)}$ of 3.0 Ω (CEDM7001) and 8.0 Ω (CEDM8001). The CEDM7001 and CEDM8001 are the ideal solutions for design engineers seeking energy efficient MOSFETs in a very small package.

Features:

- 20V, 100mA N-Channel and P-Channel
- Small space saving SOT-883L package
- Peak drain current = 200mA
- Low minimum gate voltage = 0.6V
- $r_{DS(ON)}$ = N-Channel: 3.0 Ω
P-Channel: 8.0 Ω

Applications:

- DC/DC conversion
- Boost switching
- Battery charging
- Load switching

Benefits:

- Space saving ultra miniature package
- Complementary N-Channel and P-Channel devices
- Energy efficient



Package Highlights:

Space Saving

Utilizes 0.6 sq mm

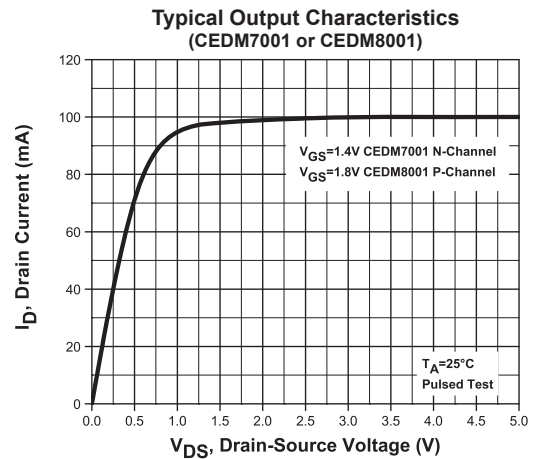
Utilizes 76% less board space than the SOT-523

Low Profile

0.4mm

48% lower profile than the SOT-523

Typical Electrical Characteristics



Samples and Literature



To order samples of this device visit:
www.centrasemi.com/info/CEDM7001



Order your selection guides today.
Visit: www.centrasemi.com/product/literature

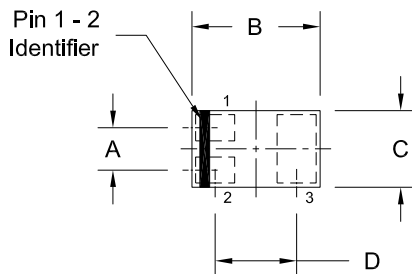
$T_A = 25^\circ C$

	Electrical Characteristics								Thermal Characteristics		
	BV_{DSS} (V)	I_D (mA)	$V_{GS(th)}$ (V)		$r_{DS(ON)}$ (Ω)	@ V_{GS} (V)	@ I_D (mA)	C_{iss} (pF)	C_{rss} (pF)	P_D (mW)	T_J, T_{stg} ($^\circ C$)
	MIN	MAX	MIN	MAX	MAX			TYP	TYP		MAX
N-Channel	20	100	0.6	0.9	3.0	4.0	10	9.0	4.0	100	-65 to +150
P-Channel	20	100	0.6	1.1	8.0	4.0	10	45	15	100	-65 to +150

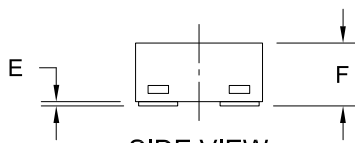
CEDM7001 (N-Channel) CEDM8001 (P-Channel)

20V, 100mA, MOSFETs in the ultra miniature SOT-883L package

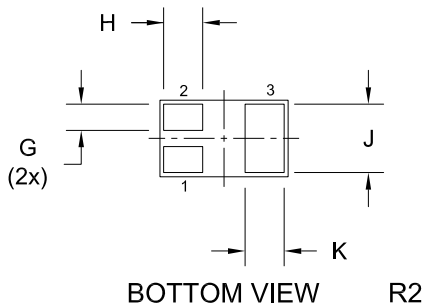
Mechanical Drawing



TOP VIEW



SIDE VIEW

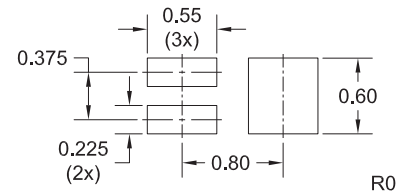


BOTTOM VIEW R2

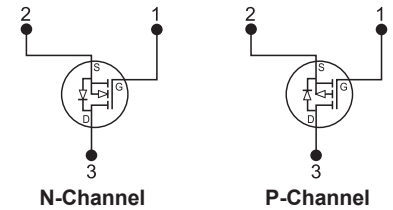
SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.014		0.35	
B	0.037	0.041	0.95	1.05
C	0.022	0.026	0.55	0.65
D	0.026		0.65	
E	0.000	0.002	0.00	0.05
F	0.012	0.016	0.30	0.40
G	0.005	0.007	0.13	0.18
H	0.008	0.012	0.20	0.30
J	0.018	0.022	0.45	0.55
K	0.008	0.012	0.20	0.30

SOT-883L (REV:R2)

Mounting Pad Geometry (Dimensions in mm)



Pinout Drawings



LEAD CODE:

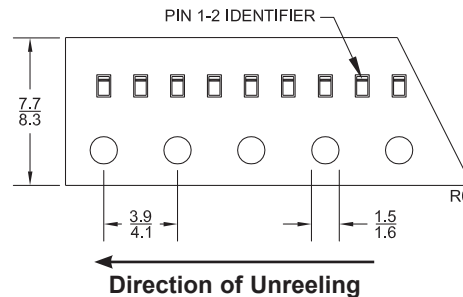
- 1) GATE
- 2) SOURCE
- 3) DRAIN

MARKING CODES

- CEDM7001: H
- CEDM8001: F

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

7" Reel = 8,000 pcs.

Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	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 of this device visit: www.centalsemi.com/info/CEDM7001



**Innovative Discrete
Semiconductors**

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