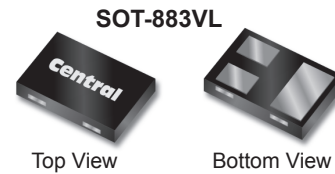


CEDM7001VL (N-Channel) CEDM8001VL (P-Channel)

20V, 100mA, MOSFETs
in the very low profile SOT-883VL package



Central Semiconductor's CEDM7001VL (N-Channel) and CEDM8001VL (P-Channel) are Enhancement-mode MOSFETs packaged in the very low profile SOT-883VL case. These devices are designed for space constrained high speed amplifier and driver applications where package height is a critical design element. These MOSFETs offers low $r_{DS(ON)}$ and low gate charge.

Features:

- Low $r_{DS(ON)}$
- Low threshold voltage
- Logic level compatible

Applications:

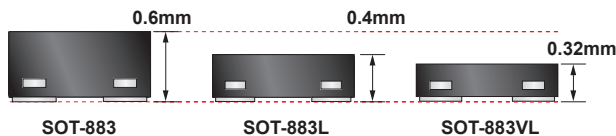
- Load/Power switches
- DC-DC converters
- Power management

Benefits:

- High power density
- Very low package profile (0.32mm)
- Space saving surface mount package

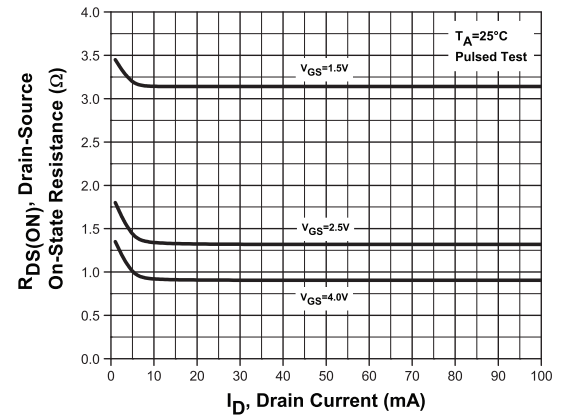
Package Profile Comparison:

The SOT-883VL has a **46%** lower profile than the SOT-883 and a **20%** lower profile than the SOT-883L.

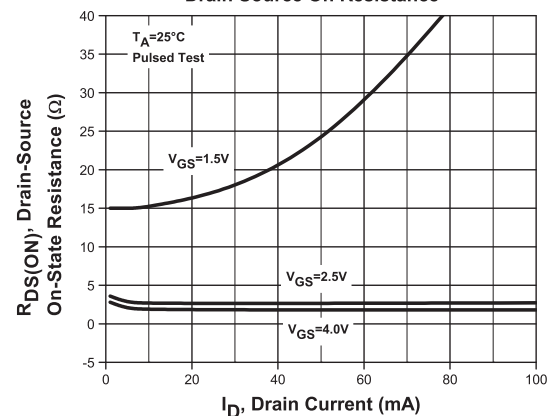


Typical Electrical Characteristics

CEDM7001VL (N-Channel)
Drain Source On Resistance



CEDM8001VL (P-Channel)
Drain Source On Resistance



Type No.	Maximum Ratings ($T_A = 25^\circ\text{C}$)			Electrical Characteristics: ($T_A = 25^\circ\text{C}$)									
	I_D (mA)	P_D (mW)	T_J, T_{stg} ($^\circ\text{C}$)	BV_{DSS} (V)	$V_{GS(th)}$ (V)		$r_{DS(ON)}$ (Ω)		@ V_{GS}	@ I_D	Q_{gs} (nC)	C_{iss} (pF)	C_{rss} (pF)
	MAX	MAX	MAX	MIN	MIN	MAX	TYP	MAX	(V)	(mA)	TYP	TYP	TYP
CEDM7001VL	100	100	-65 to +150	20	0.6	0.9	0.9 1.3	3.0 4.0	4.0 2.5	10 10	0.16	9.0	4.0
CEDM8001VL	100	100	-65 to +150	20	0.6	1.1	1.9 2.4	8.0 12	4.0 2.5	10 10	0.158	45	15

Services:

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/
Multi Discrete Modules (MDM™)
- Bare Die for Hybrid Applications

Weblink/Samples:



For more information
or to request
samples visit:

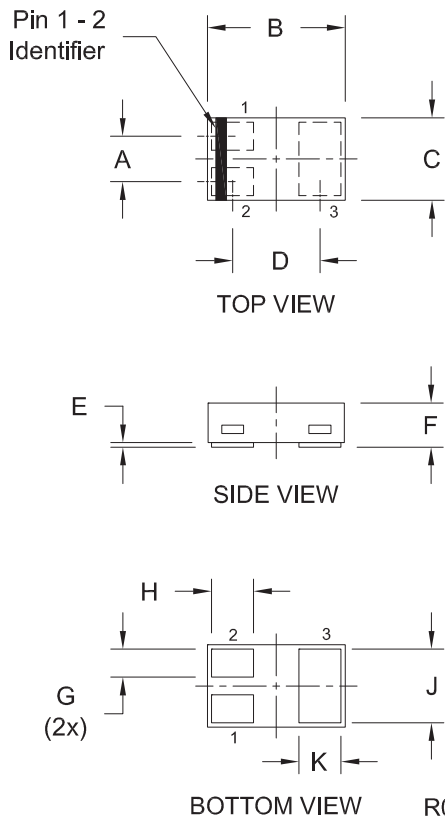


www.centrasemi.com/info/LPMOSFETs

CEDM7001VL (N-Channel) CEDM8001VL (P-Channel)

20V, 100mA, MOSFETs in the very low profile SOT-883VL package

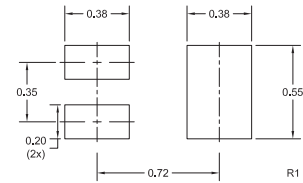
Mechanical Drawing



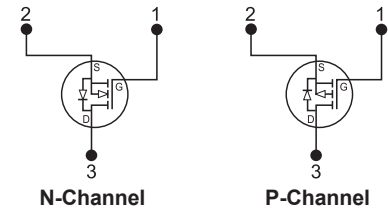
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.014		0.35	
B	0.037	0.041	0.95	1.05
C	0.022	0.026	0.55	0.65
D	0.026		0.65	
E	0.000	0.002	0.00	0.05
F	0.012	0.013	0.30	0.32
G	0.004	0.008	0.10	0.20
H	0.008	0.012	0.20	0.30
J	0.018	0.022	0.45	0.55
K	0.008	0.012	0.20	0.30

SOT-883VL (REV:R0)

Mounting Pad Geometry (Dimensions in mm)



Pinout Drawings



LEAD CODE:

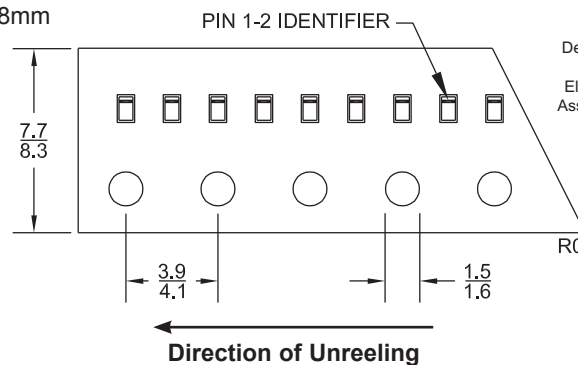
- 1) Gate
- 2) Source
- 3) Drain

MARKING CODES

- CEDM7001VL: 7
- CEDM8001VL: 8

Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 8mm



Devices are taped in accordance with Electronic Industries Association Standard EIA-481-D

Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
7"	8,000 pcs.	CEDM7001VL TR CEDM8001VL TR

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

Package Type Options (Dimensions in mm)

Package	Length	Width	Height	P _D (mW)	Central Item Number
SOT-883VL	1.05	0.65	0.32	100	CEDM7001VL CEDM8001VL
SOT-883L	1.05	0.65	0.40	100	CEDM7001 CEDM8001
SOT-953	1.05	1.05	0.50	250	CMNDM7001 CMNDM8001
SOT-523	1.70	1.70	0.78	250	CMUDM7001 CMUDM8001



Innovative Discrete Semiconductors

For further information contact:
Sales at Central Semiconductor Corp.
(631) 435-1110 or visit:
www.centrasemi.com