

CMNDM7001 (N-Channel) CMNDM8001 (P-Channel) 20V, 100mA, MOSFETs in the miniature SOT-953 package



Central Semiconductor's CMNDM7001 (N-Channel) and complementary CMNDM8001 (P-Channel) are single 20V, 100mA MOSFETs in the miniature, low profile SOT-953 surface mount package. They present the ideal solution for design engineers seeking energy efficient MOSFETs in a very small package.

Features:

- 20V, 100mA N-Channel and P-Channel
- Small space saving SOT-953 package
- Peak drain current = 200mA
- Low minimum gate voltage = 0.6V
- $r_{DS(ON)}$ = N-Channel: 0.9 Ω
P-Channel: 1.9 Ω

Applications:

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

Benefits:

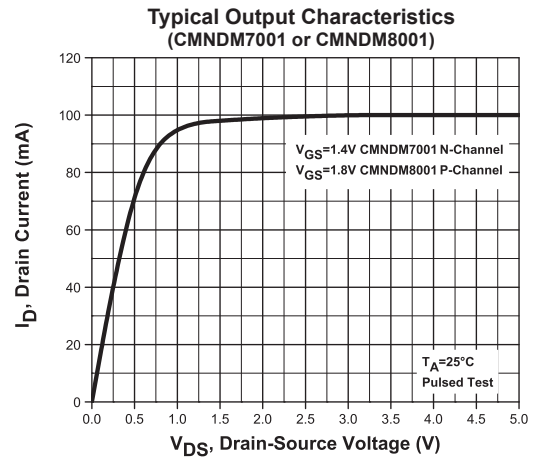
- Space saving miniature package
- Complementary N-Channel and P-Channel devices
- Energy efficiency



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Typical Electrical Characteristics



Samples and Literature



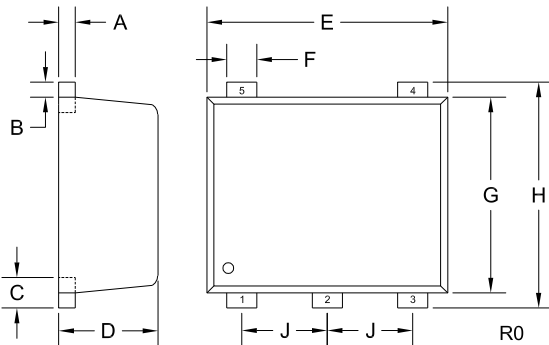
To order samples of these devices visit:
www.centrasemi.com/info/CMNDM

$T_A=25^{\circ}C$	Electrical Characteristics										Thermal Characteristics	
	BV_{DSS} (V)	I_D (mA)	$V_{GS(th)}$ (V)		$r_{DS(ON)}$ (Ω)	@ V_{GS} (V)	@ I_D (mA)	$Q_g(tot)$ (nC)	C_{iss} (pF)	C_{rss} (pF)	P_D (mW)	T_J, T_{stg} ($^{\circ}C$)
	MIN	MAX	MIN	MAX	TYP			TYP	TYP	TYP	MAX	MAX
N-Channel	20	200	0.6	0.9	0.9 1.3	4.0 2.5	10 10	0.566	9.0	4.0	250	-65 to +150
P-Channel	20	200	0.6	1.1	1.9 2.4	4.0 2.5	10 10	0.658	45	15	250	-65 to +150

CMNDM7001 (N-Channel) CMNDM8001 (P-Channel)

20V, 100mA, MOSFETs in the miniature SOT-953 package

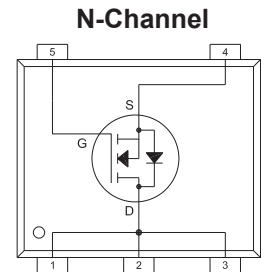
Mechanical Drawing



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.002	0.006	0.050	0.150
B	0.002	0.006	0.050	0.150
C	0.005	0.007	0.125	0.175
D	0.016	0.020	0.400	0.500
E	0.037	0.041	0.950	1.050
F	0.004	0.008	0.100	0.200
G	0.030	0.033	0.750	0.850
H	0.037	0.041	0.950	1.050
J	0.014		0.350	

SOT-953 (REV: R0)

Pin Configuration



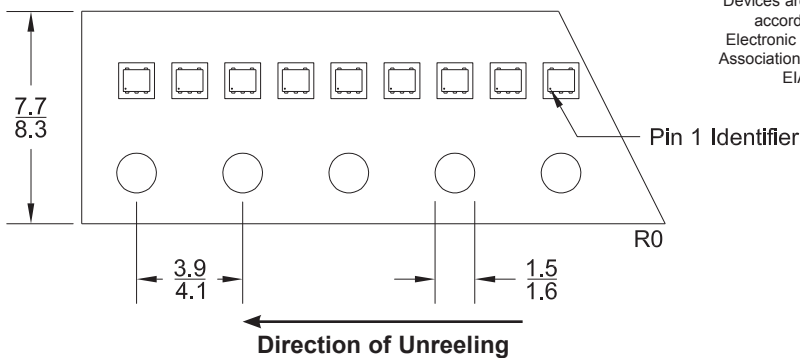
LEAD CODE:

- 1) Drain 4) Source
- 2) Drain 5) Gate
- 3) Drain

MARKING CODE: AC

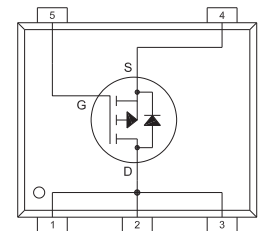
Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 8mm



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

P-Channel



LEAD CODE:

- 1) Drain 4) Source
- 2) Drain 5) Gate
- 3) Drain

MARKING CODE: BC

Packaging Base

7" Reel = 8,000 pcs. (add TR13 suffix to part number)

Reel Packing Information

Reel Size	Reels per Box	Parts per Box	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	3	24,000	8x7x2	20x18x5	1	1
	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.centrasemi.com/info/CMNDM



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

145 Adams Avenue • Hauppauge • New York • 11788 • USA • Tel:(631) 435-1110 • Fax:(631) 435-1824

PB CMNDM7001 (R1)