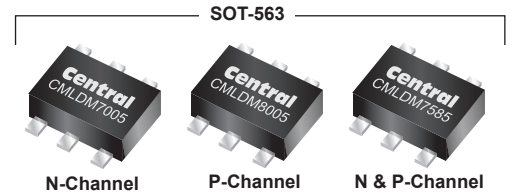


CMLDM7005 (Dual, N-Channel) CMLDM8005 (Dual, P-Channel) CMLDM7585 (N & P-Channel)

20V, 650mA Dual, Complementary MOSFETs in the miniature SOT-563 package



Central Semiconductor's CMLDM7005 (Dual, N-Channel), CMLDM8005 (Dual, P-Channel), and CMLDM7585 (N & P-Channel) are 20V, 650mA MOSFETs with exceptionally low $r_{DS(ON)}$ and threshold voltage specifications. These devices are the ideal solution for design engineers seeking energy efficient MOSFETs in a very small package.

Features:

- ESD protection up to 2kV
- Low $r_{DS(ON)}$
- Low threshold voltage
- Logic level compatible
- Low gate charge
- Drain current of 650mA per individual MOSFET

Applications:

- High speed pulsed amplifiers
- Load/Power switches
- Power supply converter circuits
- Power management
- Motor drives

Benefits:

- Closely matched characteristics
- Energy efficiency
- Integrated transient protection

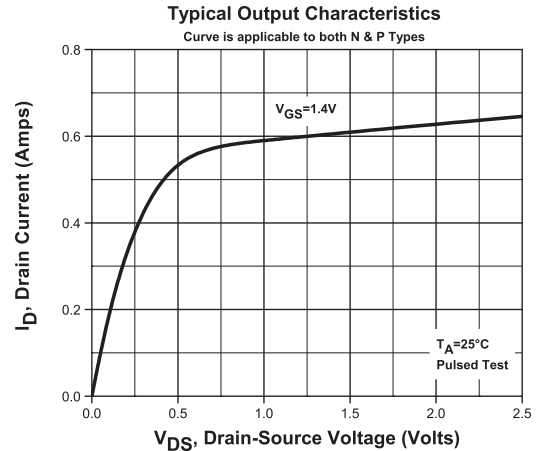
Literature



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SMD
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GUIDE

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Typical Electrical Characteristics



Samples



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

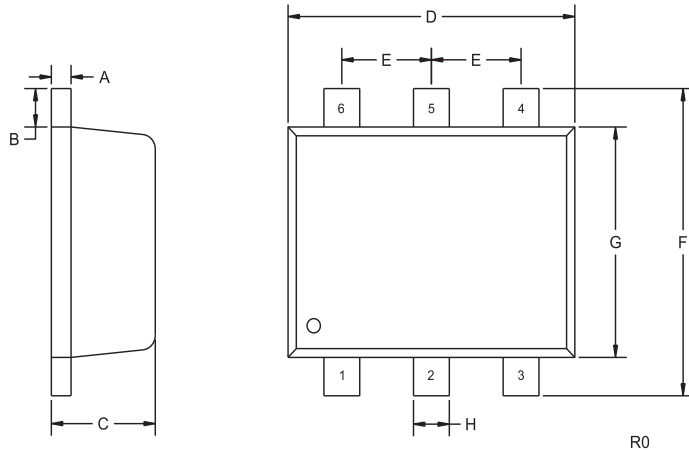
Electrical Characteristics: ($T_A = 25^\circ C$ unless otherwise noted)												Thermal Characteristics		
	BV_{DSS} (V)	I_D (mA)	$V_{GS(th)}$ (V)		$r_{DS(ON)}$ (Ω)		@ V_{GS} (V)	@ I_D (mA)	Q_{gs} (nC)	C_{iss} (pF)	C_{rss} (pF)	P_D (mW)	T_J, T_{stg} ($^\circ C$)	
			MIN	MAX	TYP	MAX								MAX
N-Channel	20	650	0.5	1.1	0.14 0.2	0.23 0.275	4.5 2.5	600 500	0.17	100	18	350*	-65 to +150	
P-Channel	20	650	0.5	1.0	0.25 0.37	0.36 0.5	4.5 2.5	350 300	0.24	100	25	350*	-65 to +150	

*Note: Ceramic or aluminum core PC Board with copper mounting pad area of 4.0mm²

CMLDM7005 (Dual, N-Channel) CMLDM8005 (Dual, P-Channel) CMLDM7585 (N & P-Channel)

20V, 650mA
Dual, Complementary
MOSFETs in the miniature
SOT-563 package

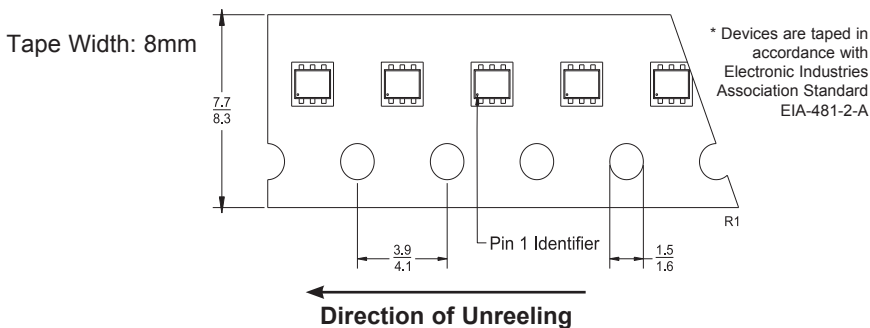
Mechanical Drawing - SOT-563



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.10	0.18
B	0.008		0.20	
C	0.022	0.024	0.56	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.061	0.067	1.55	1.70
G	0.047		1.20	
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R0)

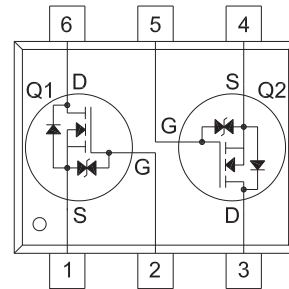
Tape Dimensions and Orientation (Dimensions in mm)



Direction of Unreeling

Pinout

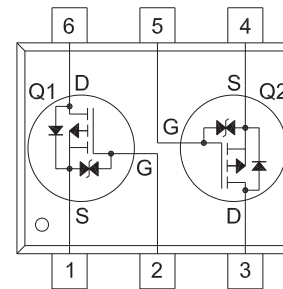
Dual, N-Channel



- LEAD CODE:**
- 1) Source Q1
 - 2) Gate Q1
 - 3) Drain Q2
 - 4) Source Q2
 - 5) Gate Q2
 - 6) Drain Q1

MARKING CODE: CC7

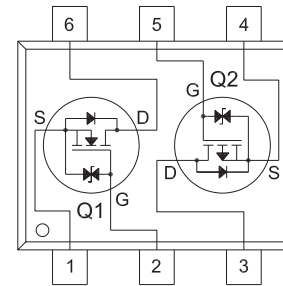
Dual, P-Channel



- LEAD CODE:**
- 1) Source Q1
 - 2) Gate Q1
 - 3) Drain Q2
 - 4) Source Q2
 - 5) Gate Q2
 - 6) Drain Q1

MARKING CODE: CC8

N & P-Channel



- LEAD CODE:**
- 1) Source Q1
 - 2) Gate Q1
 - 3) Drain Q2
 - 4) Source Q2
 - 5) Gate Q2
 - 6) Drain Q1

MARKING CODE: 87C

Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No. (N-Channel)	Central Item No. (P-Channel)	Central Item No. (N & P-Channel)
7"	3,000	CMLDM7005 TR	CMLDM8005 TR	CMLDM7585 TR

Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	3	9,000	8x7x2	20x18x5	1	1
	9	27,000	9x9x5	23x23x13	3	2
	18	54,000	9x9x9	23x23x23	6	3
	40	120,000	21x9x9	53x23x23	13	6
	108	324,000	27x9x17	69x23x43	34	16

Sample devices available upon request. To order samples of this device visit: www.centrasemi.com/info/CMLDM

Central Semiconductor Corp. Innovative Discrete Semiconductors

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