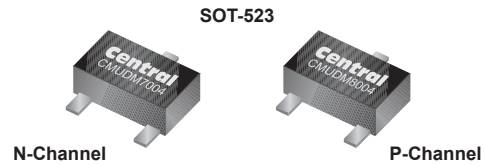


CMUDM7004 (N-Channel) CMUDM8004 (P-Channel)

30V, 450mA MOSFETs in the SOT-523 package



The Central Semiconductor CMUDM7004 and CMUDM8004 are complementary Enhancement-mode MOSFETs featuring Low $r_{DS(on)}$ and Low Threshold Voltages. The devices have closely matched reverse voltage, drain current and gate threshold ratings, making them the ideal MOSFET pair for complementary applications.

Features:

- ESD protection up to 2kV
- Low $r_{DS(ON)}$
- Low threshold voltage
- Logic level compatible
- Low gate charge

Applications:

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

Benefits:

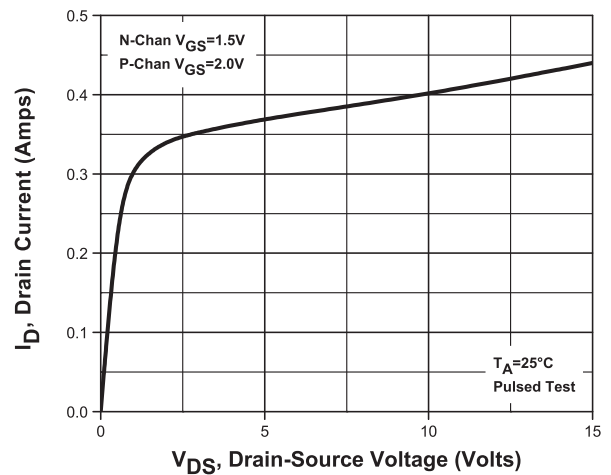
- Closely matched reverse and forward characteristics
- Energy efficiency
- Integrated transient protection



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Typical Output Characteristics



Samples and Literature



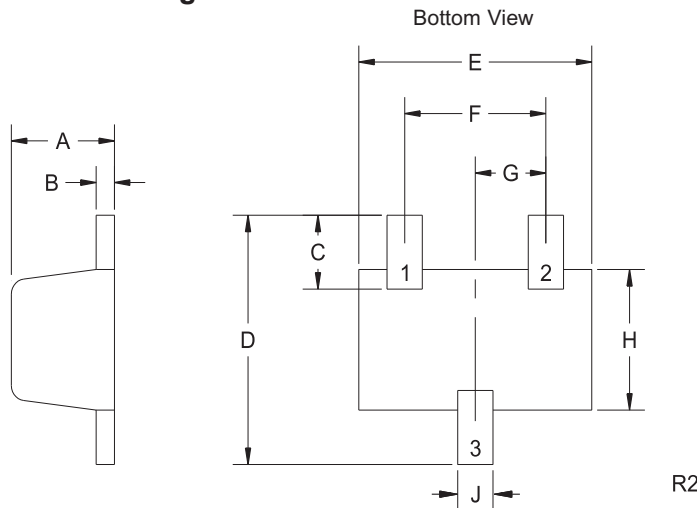
To order samples of these devices visit:
www.centrasemi.com/info/CMUDM

	$T_A = 25^\circ\text{C}$ Electrical Characteristics												Thermal Characteristics	
	BV_{DSS} (V)	I_D (mA)	$V_{GS(th)}$ (V)		$r_{DS(ON)}$ (Ω)		@ V_{GS}		Q_{gs} (nC)	C_{iss} (pF)	C_{rss} (pF)	P_D (mW)	T_J, T_{stg} ($^\circ\text{C}$)	
			MIN	MAX	TYP	MAX	(V)	@ I_D (mA)						
N-Channel	30	450	0.5	1.0	0.28 0.39 0.55	0.46 0.56 0.73	4.5 2.5 1.8	200 100 75	0.15	45	10	250	-65 to +150	
P-Channel	30	450	0.5	1.0	1.0 1.5 2.6	1.1 2.0 3.3	4.5 2.5 1.8	430 200 100	0.35	55	10	250	-65 to +150	

CMUDM7004 (N-Channel) CMUDM8004 (P-Channel)

30V, 450mA MOSFETs in the SOT-523 package

Mechanical Drawing - SOT-523



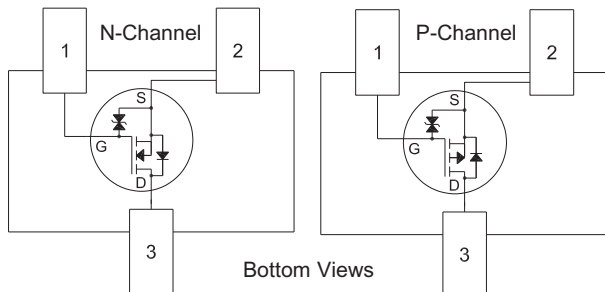
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.023	0.031	0.58	0.78
B	0.002	0.008	0.04	0.20
C	0.013	0.021	0.34	0.54
D	0.059	0.067	1.50	1.70
E	0.059	0.067	1.50	1.70
F	0.035	0.043	0.90	1.10
G	0.020		0.50	
H	0.031	0.039	0.78	0.98
J	0.010	0.014	0.25	0.35

SOT-523 (REV: R2)

MARKING CODEs
CMUDM7004: 74C
CMUDM8004: 84C

R2

Pinouts



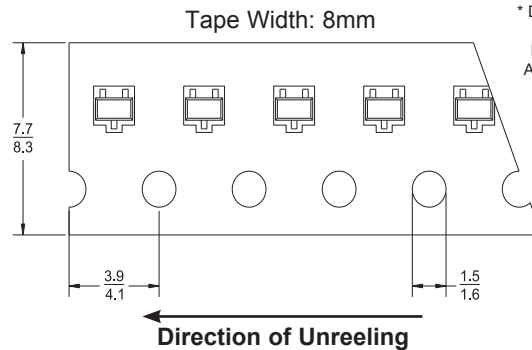
Lead Code:

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

Lead Code:

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

Tape Dimensions and Orientation (Dimensions in mm)



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

Packaging Base 7" Reel = 3,000 pcs. (add TR suffix to part number)

Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	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 these devices visit: www.centrasemi.com/info/CMUDM



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