

## Small Signal MOSFETs



PICOmini™



TLP™ Tiny Leadless Package



tiny leadless module™ TLM

SOT-563  
(Single or Dual)

SOT-883L  
(Single)

TLM621H  
(Single)

### features

- Single and Dual configurations
- N-Channel and P-Channel devices
- Dual MOSFET with ESD protection (CMLDM7003)



Sample Devices  
available  
upon request.

### description

Central Semiconductor manufactures a series of small signal MOSFETs in a variety of tiny space saving surface mount packages. The featured newest device is a 280mA, 50V Dual N-Channel MOSFET with a built in 2KV ESD protection and packaged in the tiny SOT-563 surface mount case. All these new small signal MOSFET devices have been designed for the latest generation of electronic products.

### selection guide



#### 280mA, 50V, Dual MOSFET with ESD Protection

FAMILY	DESCRIPTION	r <sub>DS(ON)</sub> @ I <sub>D</sub>		V <sub>GS(th)</sub> (V)		BV <sub>DSS</sub>	C <sub>iss</sub>	C <sub>rss</sub>	t <sub>on</sub>	t <sub>off</sub>	CASE
		(Ω) MAX	(A)	MIN	MAX	(V) MIN	(pF) MAX	(pF) MAX	(ns) MAX	(ns) MAX	
CMLDM7003	N-Channel MOSFET	3.0	0.05	0.49	1.0	50	50	5.0	-	-	SOT-563

#### 280mA, 50V, Dual MOSFET

CMLDM7002A	N-Channel MOSFET	2.0	0.5	1.0	2.5	60	50	5.0	20	20	SOT-563
CMLDM8002A	P-Channel MOSFET	2.5	0.5	1.0	2.5	50	70	7.0	20	20	SOT-563

#### 950mA, 20V, Single MOSFET

CMLDM8120	P-Channel MOSFET	0.15	0.95	0.45	1.0	20	-	-	-	-	SOT-563
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#### 200mA, 20V, Single MOSFET

CEDM7001	N-Channel MOSFET	3.0	0.01	0.6	0.9	20	-	-	-	-	Bottom View SOT-883L
CEDM8001	P-Channel MOSFET	8.0	0.01	0.6	1.1	20	-	-	-	-	Bottom View SOT-883L

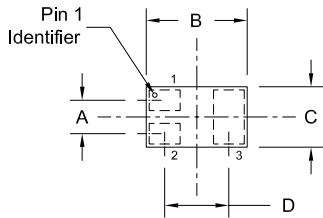
#### Coming Soon... 280mA, 50V, Single MOSFET

CTLDM7002A-M621H	N-Channel MOSFET	2.0	0.5	1.0	2.5	60	50	5.0	20	20	Bottom View TLM621H
CTLDM8002A-M621H	P-Channel MOSFET	2.5	0.5	1.0	2.5	50	70	7.0	20	20	Bottom View TLM621H

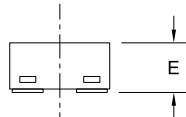
# Small Signal MOSFETs

## Mechanical Specifications

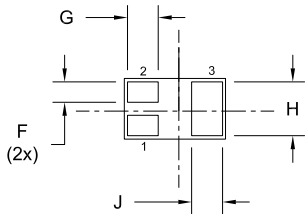
### SOT-883L



TOP VIEW



SIDE VIEW



BOTTOM VIEW R0

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	0.014	0.016	0.35	0.40
F	0.004	0.008	0.10	0.20
G	0.008	0.012	0.20	0.30
H	0.018	0.022	0.45	0.55
J	0.008	0.012	0.20	0.30

SOT883L (REV:R0)

#### CEDM7001

##### LEAD CODE:

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

MARKING CODE: H

#### CEDM8001

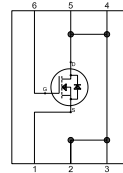
##### LEAD CODE:

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

MARKING CODE: F

### TLM621H

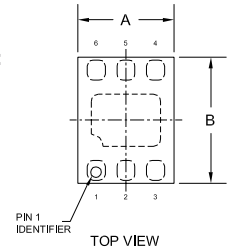
#### CTLDM7002A-M621H



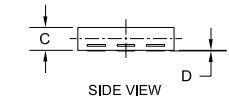
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- 1) SOURCE
- 2) DRAIN
- 3) DRAIN
- 4) DRAIN
- 5) DRAIN
- 6) GATE

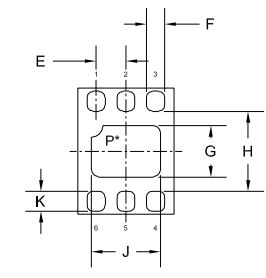
MARKING CODE: CND



TOP VIEW



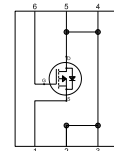
SIDE VIEW



BOTTOM VIEW R0

\* Exposed pad P internally connected to pins 3 and 4

#### CTLDM8002A-M621H



##### LEAD CODE:

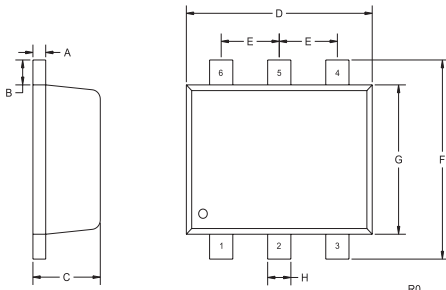
- 1) SOURCE
- 2) DRAIN
- 3) DRAIN
- 4) DRAIN
- 5) DRAIN
- 6) GATE

MARKING CODE: CNC

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.053	0.065	1.35	1.65
B	0.073	0.085	1.85	2.15
C	0.012	0.016	0.30	0.40
D	0.000	0.002	0.00	0.05
E	0.020		0.50	
F	0.008	0.012	0.20	0.30
G	0.027	0.035	0.69	0.89
H	0.053	0.057	1.35	1.45
J	0.039	0.047	0.99	1.19
K	0.011	0.015	0.28	0.38

TLM621H (REV:R0)

### SOT-563

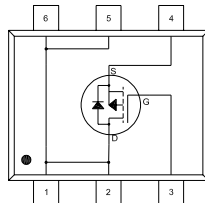


R0

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)

#### CMLDM8120

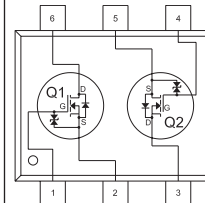


##### LEAD CODE:

- 1) DRAIN
- 2) DRAIN
- 3) GATE
- 4) SOURCE
- 5) DRAIN
- 6) DRAIN

MARKING CODE: C81

#### CMLDM7003

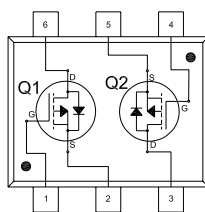


##### LEAD CODE:

- 1) GATE Q1
- 2) SOURCE Q1
- 3) DRAIN Q2
- 4) GATE Q2
- 5) SOURCE Q2
- 6) DRAIN Q1

MARKING CODE: C30

#### CMLDM8002A

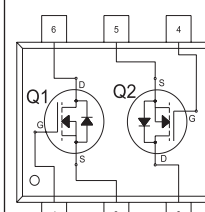


##### LEAD CODE:

- 1) GATE Q1
- 2) SOURCE Q1
- 3) DRAIN Q2
- 4) GATE Q2
- 5) SOURCE Q2
- 6) DRAIN Q1

MARKING CODE: C08

#### CMLDM7002A



##### LEAD CODE:

- 1) GATE Q1
- 2) SOURCE Q1
- 3) DRAIN Q2
- 4) GATE Q2
- 5) SOURCE Q2
- 6) DRAIN Q1

MARKING CODE: L02

**Central**<sup>TM</sup>  
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Semiconductors

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