

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 _{DS(ON)} @ I _D		V _{GS(th)} (V)		BV _{DSS}	C _{iss}	C _{rss}	t _{on}	t _{off}	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

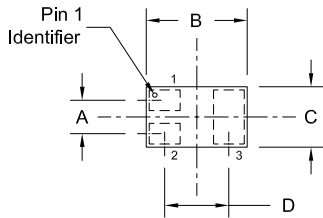
Coming Soon... 280mA, 50V, Single MOSFET

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

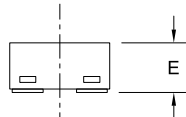
Small Signal MOSFETs

Mechanical Specifications

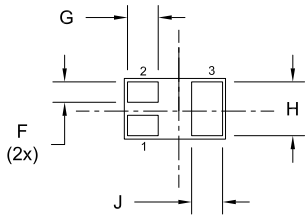
SOT-883L



TOP VIEW



SIDE VIEW



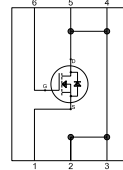
BOTTOM VIEW R0

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)

TLM621H

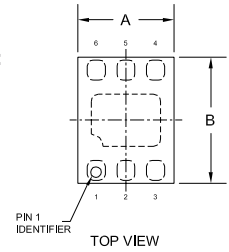
CTLDM7002A-M621H



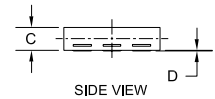
LEAD CODE:

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

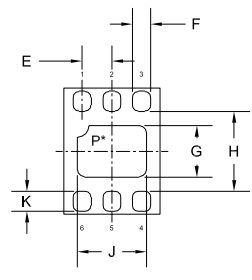
MARKING CODE: CND



TOP VIEW



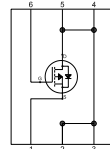
SIDE VIEW



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)

CEDM7001

LEAD CODE:

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

MARKING CODE: H

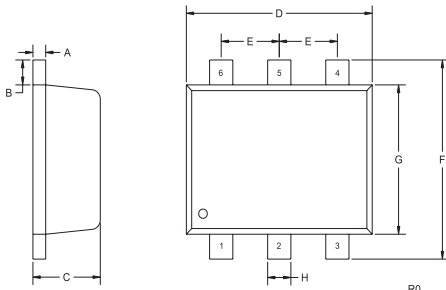
CEDM8001

LEAD CODE:

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

MARKING CODE: F

SOT-563

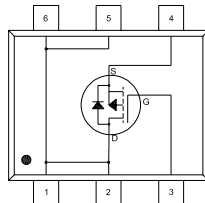


R0

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

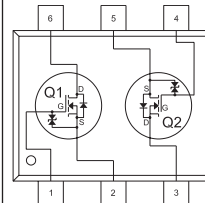


LEAD CODE:

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

MARKING CODE: C81

CMLDM7003

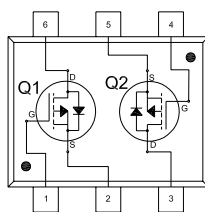


LEAD CODE:

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

MARKING CODE: C30

CMLDM8002A

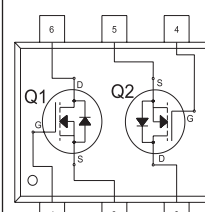


LEAD CODE:

- 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

CentralTM
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