

APPLICATIONS:

- DC DC Converters
- Switching Circuits
- LCD Backlighting
- Battery Powered Portable Equipment

Central
Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLT3410-M621 and CTLT7410-M621 are Low $V_{CE(SAT)}$ transistors in a very small leadless 1x2mm surface mount package, designed for applications where small size, operational efficiency, and low energy consumption are prime requirements. Due to the leadless package design, these devices are capable of dissipating up to 3 times the power of similar devices in comparable sized surface mount packages.

MARKING CODES: CTLT3410-M621: CB CTLT7410-M621: CD

FEATURES:

- High Operational Efficiency
- High Power to Footprint Ratio
- V_{CE(SAT)} @ 1.0A = 250mV TYP
- High Collector Current
- Small TLM621 1x2mm Package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Continuous Collector Current	IC	1.0	А
Peak Collector Current	ICM	1.5	А
Power Dissipation (Note 1)	PD	0.9	W
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C
Thermal Resistance (Note 1)	ΘJΑ	139	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

			NPN	PNP		
SYMBOL	TEST CONDITIONS	MIN	TYP	TYP	MAX	UNITS
ICBO	V _{CB} =40V				100	nA
IEBO	V _{EB} =6.0V				100	nA
BVCBO	Ι _C =100μΑ	40				V
BVCEO	I _C =10mA	25				V
BVEBO	Ι _Ε =100μΑ	6.0				V
V _{CE(SAT)}	I _C =50mA, I _B =5.0mA		25	30	50	mV
V _{CE} (SAT)	I _C =100mA, I _B =10mA		40	50	75	mV
V _{CE} (SAT)	I _C =200mA, I _B =20mA		80	95	150	mV
V _{CE} (SAT)	I _C =500mA, I _B =50mA		190	205	250	mV
V _{CE} (SAT)	I _C =800mA, I _B =80mA		290	320	400	mV
V _{CE(SAT)}	I _C =1.0A, I _B =100mA		360	400	450	mV
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Notes (1) FR-4 Epoxy PCB with copper mounting pad area of 33mm²

R3 (1-August 2011)

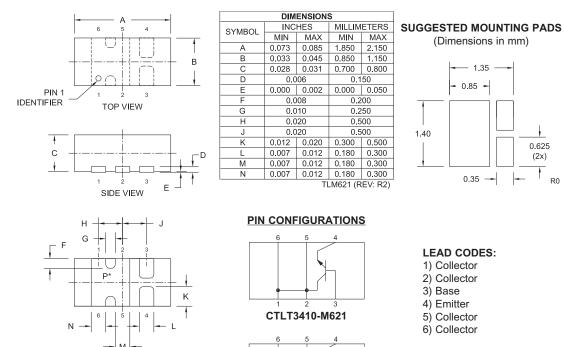


SURFACE MOUNT COMPLEMENTARY LOW V_{CE(SAT)} SILICON TRANSISTORS

CTLT3410-M621 (NPN) CTLT7410-M621 (PNP)

ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C unless otherwise noted)

			NPN	PNP		
SYMBOL	TEST CONDITIONS	MIN	TYP	TYP	MAX	UNITS
V _{BE(SAT)}	I _C =800mA, I _B =80mA				1.1	V
V _{BE(ON)}	V _{CE} =1.0V, I _C =10mA				0.9	V
hFE	V _{CE} =1.0V, I _C =10mA	100				
hFE	V _{CE} =1.0V, I _C =100mA	100			300	
hFE	V _{CE} =1.0V, I _C =500mA	100				
hFE	V _{CE} =1.0V, I _C =1.0A	50				
fT	V _{CE} =10V, I _C =50mA, f=100MHz	100				MHz
Cob	V _{CB} =10V, I _E =0, f=1.0MHz (CMLT3410-M621)	6.0		10	pF
Cob	V _{CB} =10V, I _E =0, f=1.0MHz (CMLT7410-M621)		10	15	pF



CTLT7410-M621

TLM621 CASE - MECHANICAL OUTLINE

MARKING CODES: CTLT3410-M621: CB CTLT7410-M621: CD

R3 (1-August 2011)

0.625

(2x)

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BOTTOM VIEW

* Exposed pad P connects pins 1, 2, 5, and 6.

R2

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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Product End of Life Notification

PDN ID:	PDN01096
Notification Date:	8/07/18
Last Buy Date:	2/07/19
Last Shipment Date	8/07/19

Summary:All devices in the TLM621 and TLM621H packages are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
CTLDM7002A-M621 BK	N/A, Stock Only
CTLDM7002A-M621 TR	N/A, Stock Only
CTLDM7003-M621 BK	N/A, Stock Only
CTLDM7003-M621 TR	N/A, Stock Only
CTLDM7120-M621H BK	N/A, Stock Only
CTLDM7120-M621H TR	N/A, Stock Only
CTLDM8002A-M621 BK	N/A, Stock Only
CTLDM8002A-M621 TR	N/A, Stock Only
CTLDM8002A-M621H BK	N/A, Stock Only
CTLDM8002A-M621H TR	N/A, Stock Only
CTLDM8120-M621H BK	N/A, Stock Only
CTLDM8120-M621H TR	N/A, Stock Only
CTLSH05-40M621 BK	N/A, Stock Only
CTLSH05-40M621 TR	N/A, Stock Only
CTLSH1-40M621H BK	N/A, Stock Only
CTLSH1-40M621H TR	N/A, Stock Only
CTLT3410-M621 BK	N/A, Stock Only
CTLT3410-M621 TR	N/A, Stock Only
CTLT7410-M621 TR	N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.