

CMLT3410 NPN
 CMLT7410 PNP
 CMLT3474 NPN/PNP

**SURFACE MOUNT SILICON
 DUAL, LOW $V_{CE(SAT)}$
 TRANSISTORS**



SOT-563 CASE



www.centrasemi.com

DESCRIPTION:

These CENTRAL SEMICONDUCTOR dual devices are low $V_{CE(SAT)}$ silicon transistors in an SOT-563 surface mount package designed for small signal general purpose amplifier and switching applications requiring low collector emitter saturation voltage.

**MARKING CODES: CMLT3410: C34
 CMLT7410: C74
 CMLT3474: C37**

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Collector-Base Voltage
 Collector-Emitter Voltage
 Emitter-Base Voltage
 Continuous Collector Current
 Peak Collector Current
 Power Dissipation
 Operating and Storage Junction Temperature
 Thermal Resistance

SYMBOL

V_{CBO} 40
 V_{CEO} 25
 V_{EBO} 6.0
 I_C 1.0
 I_{CM} 1.5
 P_D 350
 T_J, T_{stg} -65 to +150
 θ_{JA} 357

UNITS

V
 V
 V
 A
 A
 mW
 $^\circ\text{C}$
 $^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS PER TRANSISTOR: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	NPN		PNP		MAX	UNITS
				TYP	TYP			
I_{CBO}	$V_{CB}=40V$					100	nA	
I_{EBO}	$V_{EB}=6.0V$					100	nA	
BV_{CBO}	$I_C=100\mu A$	40					V	
BV_{CEO}	$I_C=10mA$	25					V	
BV_{EBO}	$I_E=100\mu A$	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	
$V_{BE(SAT)}$	$I_C=800mA, I_B=80mA$					1.1	V	
$V_{BE(ON)}$	$V_{CE}=1.0V, I_C=10mA$					0.9	V	
h_{FE}	$V_{CE}=1.0V, I_C=10mA$	100						
h_{FE}	$V_{CE}=1.0V, I_C=100mA$	100				300		
h_{FE}	$V_{CE}=1.0V, I_C=500mA$	100						
h_{FE}	$V_{CE}=1.0V, I_C=1.0A$	50						
f_T	$V_{CE}=10V, I_C=50mA, f=100MHz$	100					MHz	
C_{ob}	$V_{CB}=10V, I_E=0, f=1.0MHz$ (CMLT3410)		6.0			10	pF	
C_{ob}	$V_{CB}=10V, I_E=0, f=1.0MHz$ (CMLT7410)			10		15	pF	

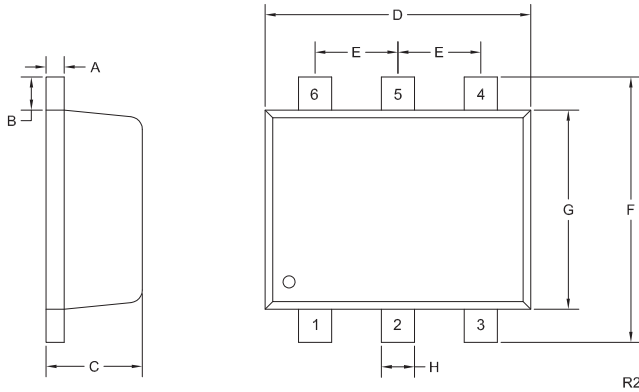
R5 (29-June 2015)

CMLT3410 NPN
 CMLT7410 PNP
 CMLT3474 NPN/PNP



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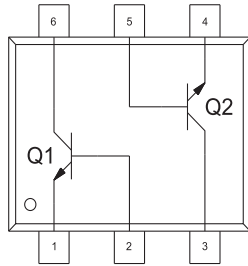
SOT-563 CASE - MECHANICAL OUTLINE



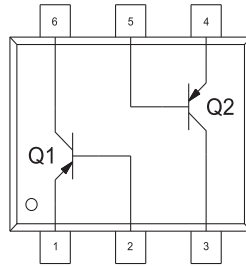
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.0027	0.007	0.07	0.18
B	0.008		0.20	
C	0.017	0.024	0.45	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.059	0.067	1.50	1.70
G	0.043	0.051	1.10	1.30
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R2)

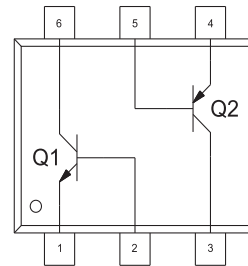
PIN CONFIGURATIONS



MARKING CODE:
 CMLT3410: C34



MARKING CODE:
 CMLT7410: C74



MARKING CODE:
 CMLT3474: C37

- LEAD CODE:**
- 1) Emitter Q1
 - 2) Base Q1
 - 3) Collector Q2
 - 4) Emitter Q2
 - 5) Base Q2
 - 6) Collector Q1

R5 (29-June 2015)

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
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

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

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

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when 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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www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Product End of Life Notification

PDN ID:	PDN01237
Notification Date:	7/27/22
Last Buy Date:	1/27/23
Last Shipment Date	7/27/23

Summary: The following items are discontinued and now considered 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 Portfolio Management. 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.

*** All Plating types (PBFREE, TIN/LEAD) for each item listed are included in this notice.**

Central Part Number	Suggested Replacement
BCW31 BK	N/A
BCW31 TR	N/A
CMLT3474 BK	N/A
CMLT3474 TR	N/A
CMUD2836 BK	N/A
CMUD2836 TR	N/A
CMZ2361 BK	N/A
CMZ2361 TR	N/A
CXDM3069N BK	N/A
CXDM3069N TR	N/A

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. If you would like assistance, please visit <https://my.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

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.