imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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ENHANCED SPECIFICATION SURFACE MOUNT NPN SILICON TRANSISTOR



APPLICATIONS:

- General purpose switching and amplification Complementary Device CMPT5401E
- Telephone applications



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPT5551E is an NPN Silicon Transistor, packaged in an SOT-23 case, designed for general purpose amplifier applications requiring high breakdown voltage and small space saving packaging.

MARKING CODE: C555

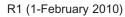
FEATURES:

- High Collector Breakdown Voltage 250V
- Low Leakage Current 50nA Max
- Low Saturation Voltage 100mV Max @ 50mA
- SOT-23 Surface Mount Package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
♦ Collector-Base Voltage	V _{CBO}	250	v
Collector-Emitter Voltage	V _{CEO}	220	v
Emitter-Base Voltage	VEBO	6.0	V
Continuous Collector Current	۱ _C	600	mA
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =120V		50	nA
ICBO	V _{CB} =120V, T _A =100°C		50	μA
IEBO	V _{EB} =4.0V		50	nA
♦ BV _{CBO}	Ι _C =100μΑ	250		v
♦ BV _{CEO}	I _C =1.0mA	220		v
BVEBO	Ι _Ε =10μΑ	6.0		V
♦ V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		75	mV
♦ V _{CE(SAT)}	I _C =50mA, I _B =5.0mA		100	mV
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA		1.00	V
V _{BE(SAT)}	I _C =50mA, I _B =5.0mA		1.00	V
♦ h _{FE}	V _{CE} =5.0V, I _C =1.0mA	120		
♦ h _{FE}	V _{CE} =5.0V, I _C =10mA	120	300	
♦ h _{FE}	V _{CE} =5.0V, I _C =50mA	75		
♦ h _{FE}	V _{CE} =10V, I _C =150mA	25		
fT	V _{CE} =10V, I _C =10mA, f=100MHz	100	300	MHz
 Enhanced sp 	ecification			

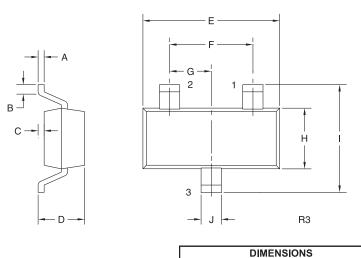




CMPT5551E

ENHANCED SPECIFICATION SURFACE MOUNT NPN SILICON TRANSISTOR

ELECTRICAL CHARACTERISTICS - Continued: (T_A =25°C unless otherwise noted) SYMBOL **TEST CONDITIONS** MIN MAX UNITS V_{CB}=10V, I_E=0, f=1.0MHz 6.0 pF Cob V_{EB}=0.5V, I_C=0, f=1.0MHz 20 pF Cib V_{CE}=10V, I_C=1.0mA, f=1.0kHz 50 200 h_{fe} NF V_{CE} =5.0V, I_{C} =200 μ A, R_{S} =10 Ω , f=10Hz to 15.7kHz 8.0 dB



SOT-23 CASE - MECHANICAL OUTLINE

		INCHES	
	SYMBOL	MIN	MAX
LEAD CODE:	А	0.003	0.007
1) Base	В	0.006	-
 2) Emitter 3) Collector 	С	-	0.005
	D	0.035	0.043
	E	0.110	0.120
MARKING CODE: C555	F	0.0)75
	G	0.037	
	Н	0.047	0.055
		0.083	0.098
	J	0.014	0.020

0.35 0.50 SOT-23 (REV: R3)

1.90 0.95 1.19

MILLIMETERS MIN

0.08

0.15

-

0.89

2.80

2.10

MAX

0.18

-

0.13

1.09

3.05

1.40

2.49

R1 (1-February 2010)

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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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Worldwide Field Representatives: www.centralsemi.com/wwreps

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Product End of Life Notification

PDN ID:	PDN01024 Rev:001
Notification Date:	10/07/16
Last Buy Date:	11/11/16
Last Shipment Date	5/11/17

Summary: The following high voltage NPN and PNP enchanced specification transistors were discontinued on May 11, 2016, and are currently classified as End of Life (EOL). Rev:001 of PDN#01024, October 7, 2016, is being issued to remove part #s CZT5551E BK and CZT5551E TR from the PDN to address market demand. CZT5551E BK and CZT5551E TR are now active devices.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement	
CMPT5401E BK	CMPT5401 BK	
CMPT5401E TR	CMPT5401 TR	
CMPT5551E BK	CMPT5551 BK	Н
CMPT5551E TR	CMPT5551 TR	Н
CMUT5401E BK	CMUT5401 BK	
CMUT5401E TR	CMUT5401 TR	
CMUT5551E BK	CMUT5551 BK	
CMUT5551E TR	CMUT5551 TR	
CXT5401E BK	CXT5401 BK	Н
CXT5401E TR	CXT5401 TR	Н
CXT5551E BK	CXT5551 BK	
CXT5551E TR	CXT5551 TR	
CZT5401E BK	CZT5401 BK	Н
CZT5401E TR	CZT5401 TR	Н

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.