

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CZTA42 NPN CZTA92 PNP

SURFACE MOUNT SILICON COMPLEMENTARY HIGH VOLTAGE TRANSISTORS



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZTA42, CZTA92 devices are complementary surface mount epoxy molded silicon planar epitaxial transistors designed for high voltage applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	CZTA42	<u>CZTA92</u>	UNITS
Collector-Base Voltage	V_{CBO}	300	300	V
Collector-Emitter Voltage	V_{CEO}	300	300	V
Emitter-Base Voltage	V _{EBO}	6.0	5.0	V
Continuous Collector Current	IC	į	500	mA
Power Dissipation	P_{D}	:	2.0	W
Operating and Storage Junction Temperature	$T_{J_{I}}T_{stg}$	-65 t	o +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	6	2.5	°C/W

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

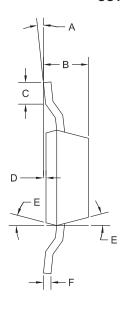
		CZTA42		CZTA92		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =200V	-	100	-	250	nA
I _{EBO}	V _{BE} =6.0V	-	100	-	-	nA
I _{EBO}	V _{BE} =3.0V	-	-	-	100	nA
BVCBO	I _C =100μA	300	-	300	-	V
BV CEO	I _C =1.0mA	300	-	300	-	V
BVEBO	I _E =100μA	6.0	-	5.0	-	V
V _{CE} (SAT)	I _C =20mA, I _B =2.0mA	-	0.5	-	0.5	V
V _{BE(SAT)}	I _C =20mA, I _B =2.0mA	-	0.9	-	0.9	V
hFE	V _{CE} =10V, I _C =1.0mA	25	-	25	-	
hFE	V _{CE} =10V, I _C =10mA	40	-	40	-	
h _{FE}	V_{CE} =10V, I_{C} =30mA	40	-	25	-	
f_{T}	V_{CE} =20V, I_{C} =10mA, f=100MHz	50	-	50	-	MHz
C _{ob}	V _{CB} =20V, I _F =0, f=1.0MHz	-	3.0	-	6.0	pF

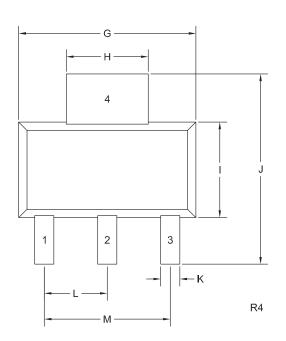
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SURFACE MOUNT SILICON COMPLEMENTARY **HIGH VOLTAGE TRANSISTORS**



SOT-223 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Base 2) Collector 3) Emitter
- 4) Collector

MARKING:

FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0°	10°	0°	10°			
В	0.059	0.071	1.50	1.80			
С	0.018		0.45				
D	0.000	0.004	0.00	0.10			
E	10°		10°				
F	0.009	0.014	0.23	0.35			
G	0.248	0.264	6.30	6.70			
Н	0.114	0.122	2.90	3.10			
	0.130	0.146	3.30	3.70			
J	0.264	0.287	6.70	7.30			
K	0.024	0.033	0.60	0.85			
Г	0.091		2.30				
М	0.181		4.60				

SOT-223 (REV: R4)

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 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

- · 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).
- 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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