CZTA14 NPN CZTA64 PNP

SURFACE MOUNT SILICON COMPLEMENTARY DARLINGTON TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZTA14 and CZTA64 are complementary silicon Darlington transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring extremely high gain.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	30	UNITS V		
Collector-Emitter Voltage	V_{CEO}	30	V		
Emitter-Base Voltage	V_{EBO}	10	V		
Continuous Collector Current	$I_{\mathbb{C}}$	500	mA		
Power Dissipation	P_{D}	2.0	W		
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C		
Thermal Resistance	$\Theta_{\sf JA}$	62.5	°C/W		
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)					

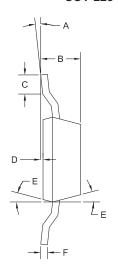
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)						
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS		
I _{CBO}	V _{CB} =30V		100	nA		
I _{EBO}	V _{EB} =10V		100	nA		
BVCES	I _C =100μA	30		V		
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA		1.5	V		
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =100mA		2.0	V		
hFE	V_{CE} =5.0V, I_{C} =10mA	10,000				
hFE	V_{CE} =5.0V, I_{C} =100mA	20,000				
f_{T}	$V_{\mbox{CE}}$ =5.0V, $I_{\mbox{C}}$ =10mA, f=100MHz	125		MHz		

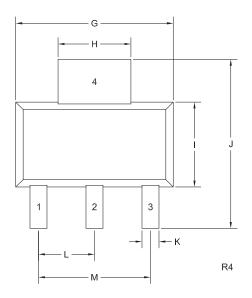
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SOT-223 CASE - MECHANICAL OUTLINE





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			
Е	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			
I	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			
L	0.091		2.30				
M	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).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

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