CZTA14 NPN CZTA64 PNP

SURFACE MOUNT COMPLEMENTARY SILICON DARLINGTON TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZTA14, CZTA64 types 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)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	IC	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

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C unless otherwise noted})$

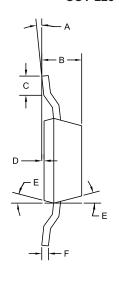
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =30V		100	nA
I _{EBO}	V _{EB} =10V		100	nA
BVCES	I _C =100μA	30		V
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA		1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =100mA		2.0	V
hFE	V_{CE} =5.0V, I_{C} =10mA	10,000		
h _{FE}	V_{CE} =5.0V, I_{C} =100mA	20,000		
f_T	V_{CE} =5.0V, I_{C} =10mA, f=100MHz	125		MHz

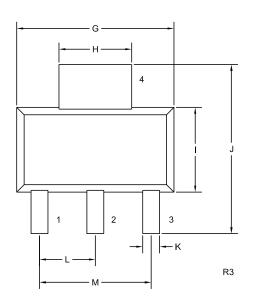
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SOT-223 CASE - MECHANICAL OUTLINE





LEAD CODE:

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

MARKING: **FULL PART NUMBER**

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	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	15°		15°			
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		
L	0.091		2.30			
M	0.181		4.60			

SOT-223 (REV: R3)

R4 (2-March 2011)

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

CONTACT US

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