CZTA14 NPN CZTA64 PNP

SURFACE MOUNT COMPLEMENTARY SILICON DARLINGTON TRANSISTORS



www.centralsemi.com

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	I_{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	Θ_{JA}	62.5	°C/W

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

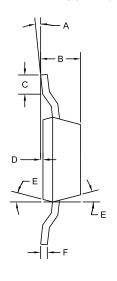
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =30V		100	nA
I _{EBO}	V _{EB} =10V		100	nA
BV _{CES}	I _C =100μA	30		V
V _{CE} (SAT)	I _C =100mA, I _B =0.1mA		1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =100mA		2.0	V
h _{FE}	V_{CE} =5.0V, I_{C} =10mA	10,000		
hFE	V_{CE} =5.0V, I_{C} =100mA	20,000		
f_{T}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

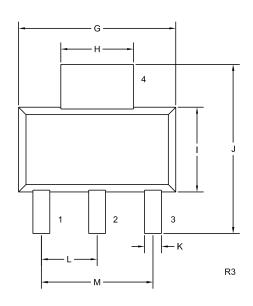
CZTA14 NPN CZTA64 PNP

SURFACE MOUNT COMPLEMENTARY SILICON DARLINGTON 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		
Е	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		
Ĺ	0.091		2.	30		
М	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

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:

www.centralsemi.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.centralsemi.com/terms

www.centralsemi.com (000)