CZTA28

SURFACE MOUNT NPN SILICON DARLINGTON TRANSISTOR





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZTA28 type is a NPN Silicon Darlington Transistor 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-Emitter Voltage	VCES	80	V
Collector-Base Voltage	V _{CBO}	80	V
Emitter-Base Voltage	V _{EBO}	12	V
Continuous Collector Current	IC	500	mA
Power Dissipation	PD	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
I _{CBO}	V _{CB} =60V		100	nA
ICES	V _{CE} =60V		500	nA
I _{EBO}	V _{EB} =10V		100	nA
BVCBO	Ι _C =100μΑ	80		V
BVCES	Ι _C =100μΑ	80		V
BVEBO	Ι _Ε =10μΑ	12		V
V _{CE} (SAT)	I _C =10mA, I _B =10μA		1.2	V
V _{CE} (SAT)	I _C =100mA, I _B =100μA		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	10,000		
f _T	V _{CE} =5.0V, I _C =10mA, f=100MHz	125		MHz
Cob	V _{CB} =10V, I _E =0, f=100kHz		8.0	pF

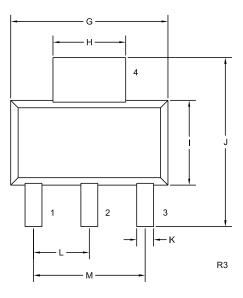
R3 (1-March 2010)



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LEAD CODE:

- Base
 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			
М	0.181		4.60			
SOT 222 (DEV/- D2)						

SOT-223 (REV: R3)

R3 (1-March 2010)

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SOT-223 CASE - MECHANICAL OUTLINE

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

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

- · Custom product packing
- - · 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

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