CZT122 NPN CZT127 PNP

COMPLEMENTARY POWER







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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZT122, CZT127 devices are complementary silicon power Darlington transistors manufactured in a surface mount package designed for low speed switching and amplifier applications.

MARKING: FULL PART NUMBER

300

MAXIMUM RATINGS: (T _A =25°C)		SYMBOL		UNITS
Collector-Bas	se Voltage	V_{CBO}	100	V
Collector-Em	itter Voltage	V_{CEO}	100	V
Emitter-Base	Voltage	V_{EBO}	5.0	V
Continuous (Collector Current	IC	5.0	Α
Peak Collector Current		I _{CM}	8.0	Α
Continuous E	Base Current	ΙΒ	120	mA
Power Dissip	pation	P_{D}	2.0	W
Operating and Storage Junction Temperature		T_J , T_stg	-65 to +150	°C
Thermal Res	istance	$\Theta_{\sf JA}$	62.5	°C/W
ELECTRICA	Sase Voltage VCBO 100 V			
SYMBOL		MIN		
ICEO	* -			μΑ
I _{CBO}	V _{CB} =100V		200	μA
I _{EBO}	V _{EB} =5.0V		2.0	mA
BV CEO	I _C =30mA	100		V
V _{CE(SAT)}	I _C =3.0A, I _B =12mA		2.0	V
VCE(SAT)	I _C =5.0A, I _B =20mA		4.0	V
V _{BE(ON)}	$V_{CE} = 3.0V, I_{C} = 3.0A$		2.5	V
h _{FE}	V _{CE} =3.0V, I _C =500mA	1000		
hFE	$V_{CE} = 3.0V, I_{C} = 3.0A$	1000		
f_{T}	V_{CE} =4.0V, I_{C} =3.0A, f=1.0MHz	4.0		MHz
C_{ob}	V_{CB} =10V, I_E =0, f=1.0MHz (CZT1	22)	200	pF
_				

 V_{CB} =10V, I_E =0, f=1.0MHz (CZT127)

 C_{ob}

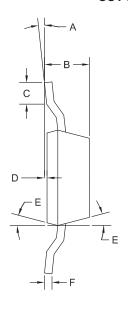
pF

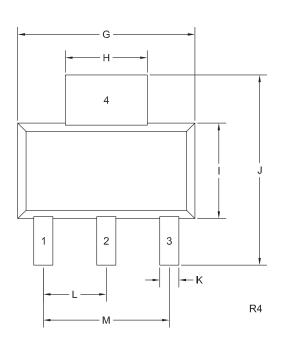
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SURFACE MOUNT SILICON **COMPLEMENTARY POWER DARLINGTON TRANSISTORS**



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			
A	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			
	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	0.1	81	4.60				

SOT-223 (REV: R4)

R5 (23-August 2017)

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

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