CZT31C NPN CZT32C PNP

SURFACE MOUNT SILICON COMPLEMENTARY POWER TRANSISTORS



SOT-223 CASE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZT31C and CZT32C are silicon surface mount epoxy molded complementary transistors manufactured by the epitaxial base process, designed for surface mounted power amplifier applications up to 3.0 amps.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	3.0	Α
Peak Collector Current	I _{CM}	6.0	Α
Continuous Base Current	Ι _Β	1.0	Α
Power Dissipation	P_{D}	2.0	W
Power Dissipation (T _C =25°C)	P_{D}	10	W
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	62.5	°C/W
Thermal Resistance	Θια	12.5	°C/W

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

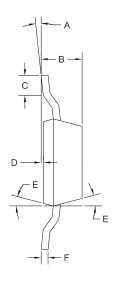
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICES	V _{CE} =100V		200	μΑ
I _{CEO}	V _{CE} =60V		300	μΑ
I _{EBO}	V _{EB} =5.0V		1.0	mA
BVCEO	I _C =30mA	100		V
V _{CE(SAT)}	I _C =3.0A, I _B =375mA		1.2	V
V _{BE(ON)}	V_{CE} =4.0V, I_{C} =3.0A		1.8	V
hFE	V_{CE} =4.0V, I_{C} =1.0A	25		
h _{FE}	V_{CE} =4.0V, I_{C} =3.0A	10	100	
f _T	V _{CE} =10V, I _C =500mA, f=1.0MHz	3.0		MHz

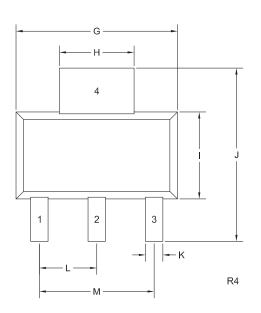
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SURFACE MOUNT SILICON COMPLEMENTARY **POWER TRANSISTORS**



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		
E	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		
Ĺ	0.091		2.30			
М	0.181		4.	60		
SOT-223 (REV: R4)						

R5 (8-December 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 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

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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