CZT2955 PNP CZT3055 NPN

SURFACE MOUNT COMPLEMENTARY SILICON POWER TRANSISTORS



SOT-223 CASE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZT2955 and CZT3055 types are surface mount epoxy molded complementary silicon transistors manufactured by the epitaxial base process, designed for surface mounted power amplifier applications up to 6.0 amps.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CER}	70	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	7.0	V
Continuous Collector Current	IC	6.0	Α
Continuous Base Current	ΙΒ	3.0	Α
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

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

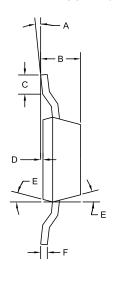
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CEO}	V _{CE} =30V		700	μΑ
ICEV	V _{CE} =100V, V _{EB} =1.5V		1.0	mA
I _{EBO}	V _{EB} =7.0V		5.0	mA
BV CER	I_C =30mA, R_{BE} =100 Ω	70		V
BV_{CEO}	I _C =30mA	60		V
V _{CE} (SAT)	I _C =4.0A, I _B =400mA		1.1	V
V _{BE(ON)}	V_{CE} =4.0V, I_{C} =4.0A		1.5	V
hFE	V_{CE} =4.0V, I_{C} =4.0A	20	70	
hFE	V_{CE} =4.0V, I_{C} =6.0A	5.0		
f_{T}	V_{CE} =10V, I_{C} =500mA, f=1.0MHz	2.5		MHz

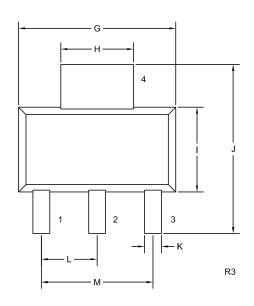
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SOT-223 CASE - MECHANICAL OUTLINE





LEAD CODE:

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

MARKING:

FULL PART NUMBER

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
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	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-223 (REV: R3)

R4 (1-March 2010)

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

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