

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Complementary to CZT32C
- Power Amplifier Applications Up to 3 Amps.

MARKING

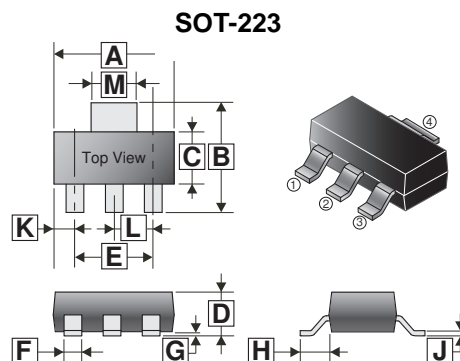
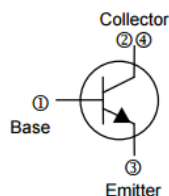
CZT31C

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-223	2.5K	13 inch

ORDER INFORMATION

Part Number	Type
CZT31C-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.90	6.70	G	-	0.18
B	6.70	7.30	H	2.00	REF.
C	3.30	3.80	J	0.20	0.40
D	1.42	1.90	K	1.10	REF.
E	4.45	4.75	L	2.30	REF.
F	0.60	0.85	M	2.80	3.20

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V _{CEO}	100	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current-Continuous	I _C	3	A
Collector Power Dissipation	P _D	1	W
Junction and Storage Temperature	T _J , T _{STG}	150, -65~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	100	-	-	V	I _C =1mA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	100	-	-	V	I _C =30mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5	-	-	V	I _C =0, I _E =3mA
Collector Cut-off Current	I _{CBO}	-	-	200	uA	V _{CB} =100V, I _E =0
Base Cut-off Current	I _{CEO}	-	-	300	uA	V _{CE} =60V, I _B =0
Emitter Cut-off Current	I _{EBO}	-	-	1	mA	V _{EB} =5V, I _C =0
DC Current Gain ¹	h _{FE(1)}	25	-	-		V _{CE} =4V, I _C =1A
	h _{FE(2)}	10	-	100		V _{CE} =4V, I _C =3A
Collector-Emitter Saturation Voltage ¹	V _{CE(sat)}	-	-	1.2	V	I _C =3A, I _B =375mA
Base-Emitter Voltage ¹	V _{BE(on)}	-	-	1.8	V	V _{CE} =4V, I _C =3A
Transition Frequency	f _T	3	-	-	MHZ	V _{CE} =10V, I _C =0.5A, f=1MHZ

Note:

1. Pulsed, 2%D.C.

CHARACTERISTIC CURVES

