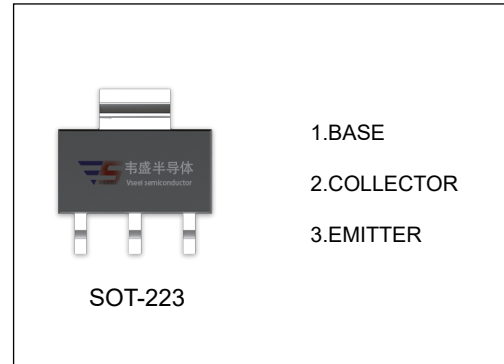


CZT31C TRANSISTOR (NPN)

FEATURES

- Complementary to CZT32C
- Power amplifier applications up to 3.0 amps.



1.BASE
2.COLLECTOR
3.EMITTER

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	3	A
P _C	Collector Power Dissipation	1	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =1mA, I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =30mA, I _B =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =3mA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =100V, I _E =0			200	uA
Base cut-off current	I _{CEO}	V _{CE} =60V, I _B =0			300	uA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			1	mA
DC current gain	h _{FE(1)} *	V _{CE} =4V, I _C =1A	25			
	h _{FE(2)} *	V _{CE} =4V, I _C =3A	10		100	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =3.0A, I _B =375mA			1.2	V
Base-emitter voltage	V _{BE} *	V _{CE} =4V, I _C =3A			1.8	V
Transition frequency	f _T	V _{CE} =10V, I _C =500mA, f=1MHz	3			MHz

* Pulsed , 2%D.C.

