

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

FEATURES

- High Voltage Amplifier Application
- High Voltage

MARKING

ZT5551

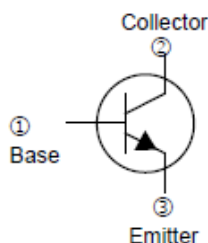
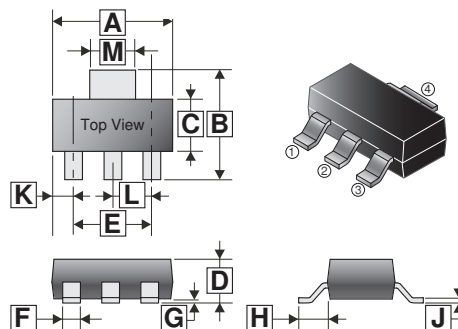
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-223	2.5K	13 inch

ORDER INFORMATION

Part Number	Type
CZT5551-C	Lead (Pb)-free and Halogen-free

SOT-223



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 _{CB0}	180	V
Collector-Emitter Voltage	V _{CEO}	160	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current-Continuous	I _C	600	mA
Collector Power Dissipation	P _D	1	W
Thermal Resistance from Junction to Ambient	R _{θJA}	125	°C/W
Junction and Storage Temperature	T _J , T _{STG}	150, -55~150	°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}	180	-	-	V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	160	-	-	V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6	-	-	V	I _C =0, I _E =10μA
Collector Cut-Off Current	I _{CBO}	-	-	50	nA	V _{CB} =120V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	50	nA	V _{EB} =4V, I _C =0
DC Current Gain	h _{FE1}	80	-	-		V _{CE} =5V, I _C =1mA
	h _{FE2}	80	-	250		V _{CE} =5V, I _C =10mA
	h _{FE3}	30	-	-		V _{CE} =5V, I _C =50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)1}	-	-	0.15	V	I _C =10mA, I _B =1mA
	V _{CE(sat)2}	-	-	0.2	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)1}	-	-	1	V	I _C =10mA, I _B =1mA
	V _{BE(sat)2}	-	-	1	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	100	-	300	MHz	V _{CE} =10V, I _C =10mA, f=100MHz
Collector Capacitance	C _{ob}	-	6	-	pF	V _{CB} =10V, I _E =0, f=1MHz
Emitter Capacitance	C _{ib}	-	20	-	pF	V _{CB} =0.5V, I _C =0, f=1MHz

CHARACTERISTIC CURVES

