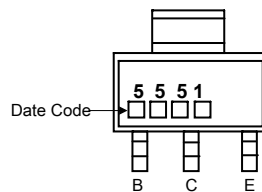
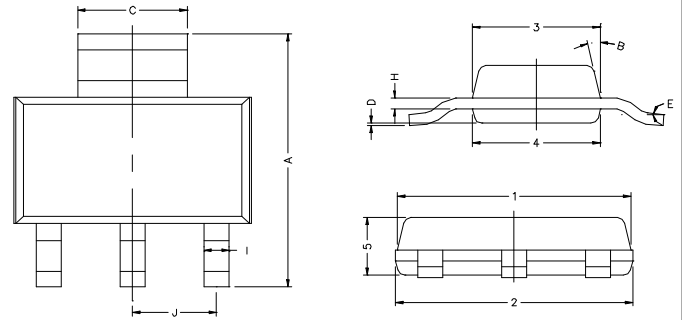


RoHS Compliant Product

SOT-223

Description

The CZT5551 is designed for general purpose applications requiring high breakdown voltages.



REF.	Min.	Max.	REF.	Min.	Max.
A	6.70	7.30	B	13 TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

MAXIMUM RATINGS* (T_{amb} = 25°C, unless otherwise specified)

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	180	V
V _{CE0}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current-Continuous	600	mA
P _D	Total Power Dissipation	1.5	W
T _J , T _{stg}	Junction and Storage Temperature	-55~-150	°C

ELECTRICAL CHARACTERISTICS T_{amb} = 25°C unless otherwise specified

Parameter	Symbol	MIN	TYP	MAX	UNIT	Test conditions
Collector-base breakdown voltage	V(BR) _{CB0}	180	-	-	V	I _C = 100 μA, I _E = 0
Collector-emitter breakdown voltage	V(BR) _{CE0}	160	-	-	V	I _C = 1 mA, I _B = 0
Emitter-base breakdown voltage	V(BR) _{EBO}	6	-	-	V	I _E = 10 μA, I _C = 0
Collector cut-off current	I _{CB0}	-	-	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 _{FE 1}	80	-	-	-	V _{CE} = 5V, I _C = 1mA
	h _{FE 2}	80	160	400	-	V _{CE} = 5V, I _C = 10mA
	h _{FE 3}	50	-	-	-	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		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		I _C = 50mA, I _B = 5mA
Transition frequency	f _T	100	-	300	MHZ	V _{CE} = 10V, I _C = 10mA, f = 100MHz
Collector output capacitance	C _{ob}	-	-	6	pF	V _{CB} = 10V, f = 1MHz, I _E = 0

CLASSIFICATION OF h_{FE}

Rank	A	N	C
Range	80-200	100-240	160-400

Characteristics Curve

