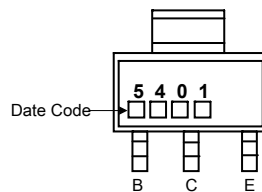
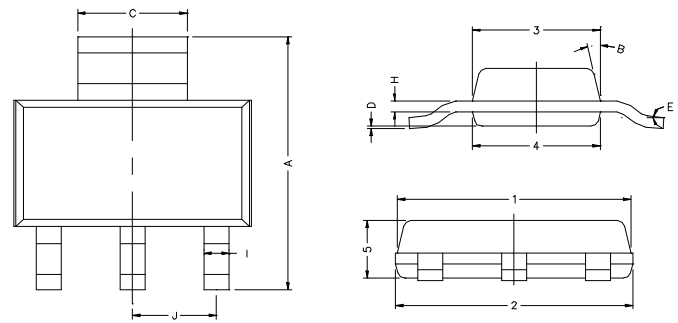


RoHS Compliant Product

SOT-223

Description

The CZT5401 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* ($T_{amb}=25^{\circ}C$, unless otherwise specified)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-160	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	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	$^{\circ}C$

ELECTRICAL CHARACTERISTICS $T_{amb}=25^{\circ}C$ unless otherwise specified

Parameter	Symbol	MIN	TYP	MAX	UNIT	Test conditions
Collector-base breakdown voltage	$V(BR)_{CBO}$	-160	-	-	V	$I_C=-100\mu A, I_E=0$
Collector-emitter breakdown voltage	$V(BR)_{CEO}$	-150	-	-	V	$I_C=-1mA, I_B=0$
Emitter-base breakdown voltage	$V(BR)_{EBO}$	-5	-	-	V	$I_E=-10\mu A, I_C=0$
Collector cut-off current	I_{CBO}	-	-	-50	nA	$V_{CB}=-120V, I_E=0$
Emitter cut-off current	I_{EBO}	-	-	-50	nA	$V_{EB}=-3V, I_C=0$
DC current gain	$h_{FE 1}$	50	-	-	-	$V_{CE}=-5V, I_C=-1mA$
	$h_{FE 2}$	80	160	400	-	$V_{CE}=-5V, I_C=-10mA$
	$h_{FE 3}$	50	-	-	-	$V_{CE}=-5V, I_C=-50mA$
Collector-emitter saturation voltage	$V_{CE(sat)1}$	-	-	-200	mV	$I_C=-10mA, I_B=-1mA$
	$V_{CE(sat)2}$	-	-	-500	mV	$I_C=-50mA, I_B=-5mA$
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 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

