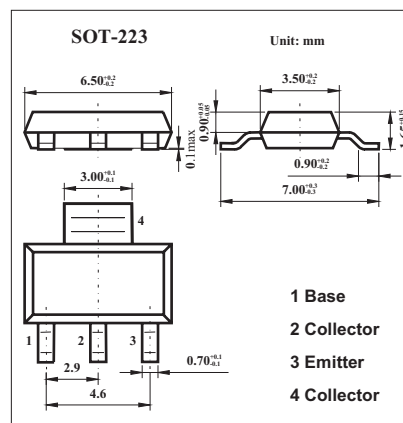


# CZTA44

■ Features

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■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	450	V
Collector-Emitter Voltage	$V_{CE0}$	400	V
Emitter-Base Voltage	$V_{EB0}$	6	V
Collector Current	$I_c$	300	mA
Power Dissipation	$P_D$	2	W
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to 150	$^\circ\text{C}$
Thermal Resistance	$\Theta_{JA}$	62.5	$^\circ\text{C/W}$

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$

Symbol	Testconditions	Min	Max	Unit
$I_{CBO}$	$V_{CB}=400V$		100	nA
$I_{CES}$	$V_{CE}=400V$		500	nA
$I_{EBO}$	$V_{BE}=4.0V$		100	nA
$BV_{CBO}$	$I_c=100\mu A$	450		V
$BV_{CES}$	$I_c=100\mu A$	450		V
$BV_{CEO}$	$I_c=1.0mA$	400		V
$BV_{EBO}$	$I_E=10\mu A$	6.0		V
$V_{CE(SAT)}$	$I_c=1.0mA, I_B=0.1mA$		0.40	V
$V_{CE(SAT)}$	$I_c=10mA, I_B=1.0mA$		0.50	V
$V_{CE(SAT)}$	$I_c=50mA, I_B=5.0mA$		0.75	V
$V_{BE(SAT)}$	$I_c=10mA, I_B=1.0mA$		0.75	V
$h_{FE}$	$V_{CE}=10V, I_c=1.0mA$	40		
	$V_{CE}=10V, I_c=10mA$	50	200	
	$V_{CE}=10V, I_c=50mA$	45		
	$V_{CE}=10V, I_c=100mA$	20		
$f_T$	$V_{CE}=10V, I_c=10mA, f=10MHz$	20		MHz
$C_{ob}$	$V_{CB}=20V, I_E=0, f=1.0MHz$		7.0	pF
$C_{ib}$	$V_{EB}=0.5V, I_c=0, f=1.0MHz$		130	pF