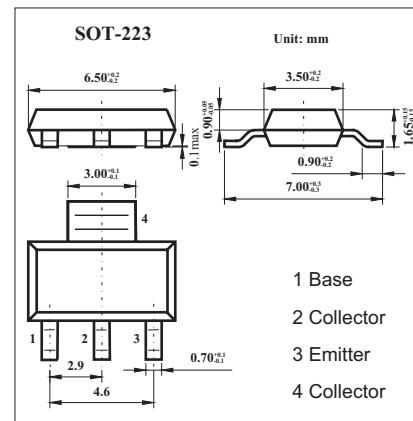


# KZT122 (CZT122)

### Features

- High current (max. 5A).
- Low voltage (max. 100V).



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

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CB0}$	100	V
Collector-emitter voltage	$V_{CE0}$	100	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	5	A
	$I_{CP}$	8	A
Base current	$I_B$	120	mA
power dissipation	$P_D$	2	W
Thermal Resistance.Junction-to-Ambient	$R_{\theta JA}$	62.5	$^\circ\text{C}/\text{W}$
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-65 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector to emitter breakdown voltage	$V_{CE0}$	$I_C=30\text{mA}$	100			V
Collector cutoff current	$I_{CE0}$	$V_{CE}=50\text{V}$			500	$\mu\text{A}$
Collector cutoff current	$I_{CBO}$	$V_{CB} = 100\text{V}$			200	$\mu\text{A}$
Emitter cutoff current	$I_{EBO}$	$V_{EB} = 5.0\text{V}$			2.0	mA
DC current gain	$h_{FE}$	$I_C = 500\text{mA}; V_{CE} = 3.0\text{V}$	1000			
		$I_C = 3\text{A}; V_{CE} = 3.0\text{V}$	1000			
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 3.0\text{A}; I_B = 12\text{mA}$			2.0	V
Base to emitter saturation voltage	$V_{BE(sat)}$	$I_C = 5.0\text{A}; I_B = 20\text{mA}$			4.0	V
Output capacitance	$C_{ob}$	$V_{CB} = 10\text{V}, I_E = 0, f = 1.0\text{MHz}$			200	pF
Transition frequency	$f_T$	$I_C = 3\text{A}; V_{CE} = 4\text{V}; f = 1.0\text{MHz}$	4.0			MHz