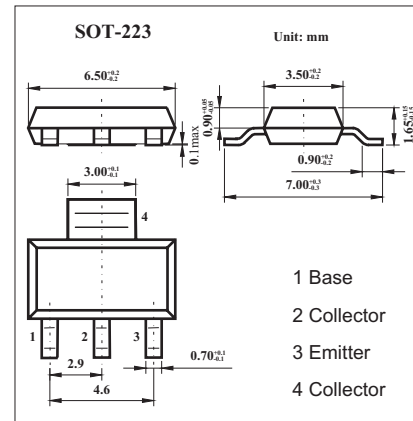


KZT3055(CZT3055)

■ Features

- High current (max. 6A).
- Low voltage (max. 60V).



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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	100	V
Collector - emitter votage	V_{CER}	70	V
Collector-emitter voltage	V_{CEO}	60	V
Emitter-base voltage	V_{EBO}	7	V
Collector current	I_C	6	A
Base current	I_B	3	A
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_{CEO}	$I_C=30\text{mA}$	60			V
Collector to emitter breakdown voltage	V_{CER}	$I_C=30\text{mA}, R_{BE}=100\ \Omega$	70			V
Collctor cutoff current	I_{CE0}	$V_{CE}=30\text{V}$			700	μA
	I_{CEV}	$V_{CE}=100\text{V}, V_{EB}=1.5\text{V}$			1.0	mA
Emitter cutoff current	I_{EBO}	$V_{EB} = 7.0\text{V}$			5.0	m A
DC current gain	h_{FE}	$I_C = 4.0\text{A}; V_{CE} = 4.0\text{V}$	20		70	
		$I_C = 6.0\text{A}; V_{CE} = 4.0\text{V}$	5.0			
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 4.0\text{A}; I_B = 400\text{mA}$			1.1	V
Base to emitter ON voltage	$V_{BE(on)}$	$V_{CE}=4.0\text{V}, I_C=4.0\text{A}$			1.5	V
Transition frequency	f_T	$I_C= 500\text{mA}; V_{CE} = 10\text{V}; f = 1.0\text{ MHz}$	2.5			MHz