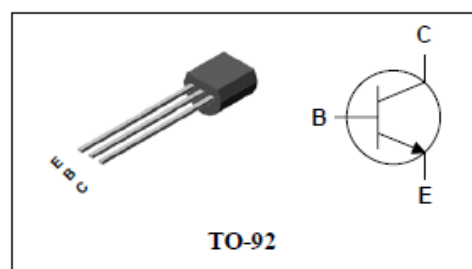


Descriptions

- High current application
- Radio in class B push-pull operation

PIN Connection



Feature

- Complementary pair with KTS8550

Ordering Information

Type NO. **Marking** **Package Code**

KTS8050	KTS8050•	TO-92
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• Dalian

Absolute maximum ratings

(Ta=25° C)

Characteristic	Symbol	Ratings	Unit
Collector-base voltage	V_{CBO}	30	V
Collector-emitter voltage	V_{CEO}	25	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_C	800	mA
Emitter current	I_E	-800	mA
Collector power dissipation	P_C	625	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55~150	°C

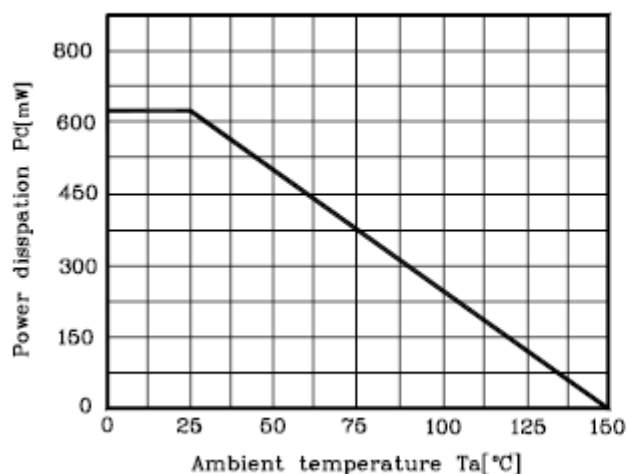
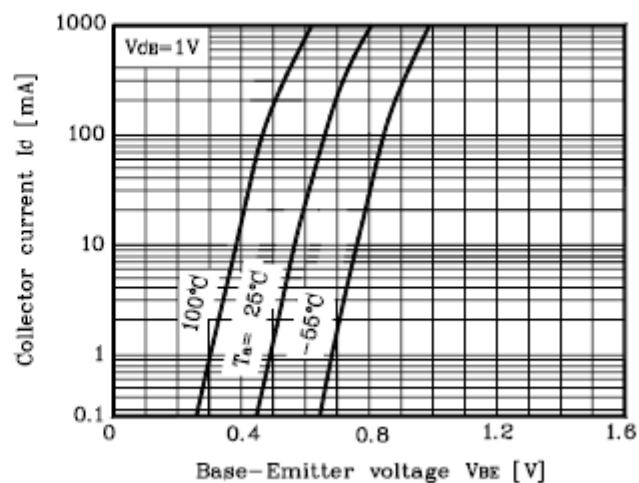
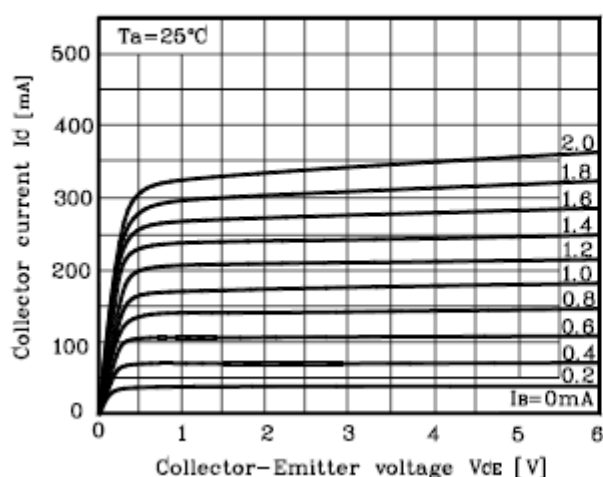
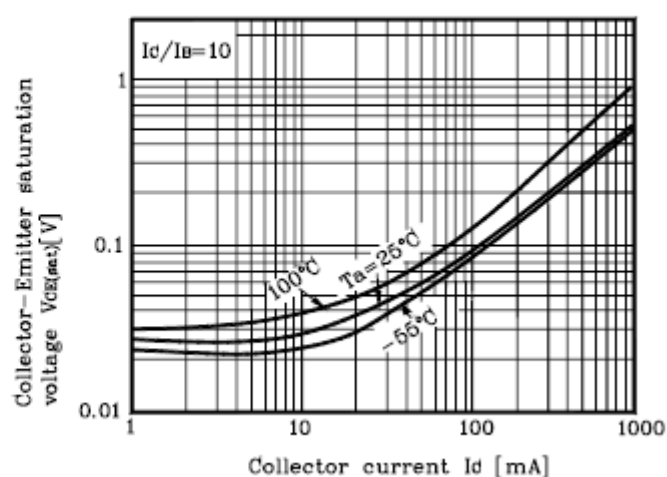
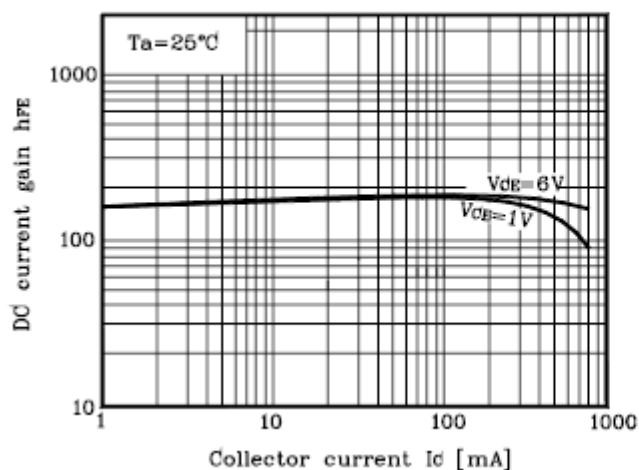
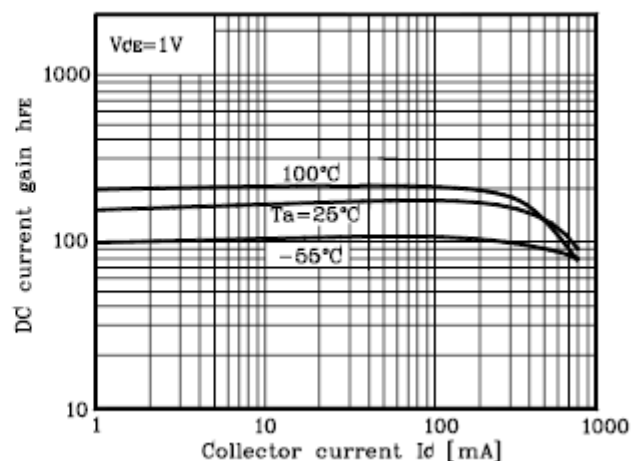
Electrical Characteristics

(Ta=25° C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-base breakdown voltage	BV_{CBO}	$I_C=500\mu A, I_E=0$	30	-	-	V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C=1mA, I_B=0$	25	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB}=15V, I_E=0$	-	-	50	nA
DC current gain	h_{FE}^*	$V_{CE}=1V, I_C=50mA$	85	-	300	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	0.5	V
Base-emitter voltage	V_{BE}	$V_{CE}=1V, I_C=500mA$	-	-	1.2	V
Transition frequency	f_T	$V_{CE}=5V, I_C=10mA, f=1MHz$	-	120	-	MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0$	-	19	-	pF

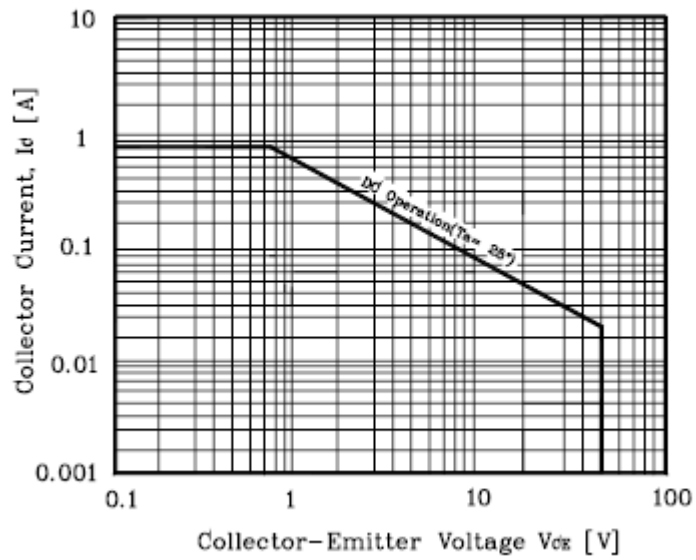
* : h_{FE} Rank / B : 85~160, C : 120~200, D : 160~300

Electrical Characteristic Curves

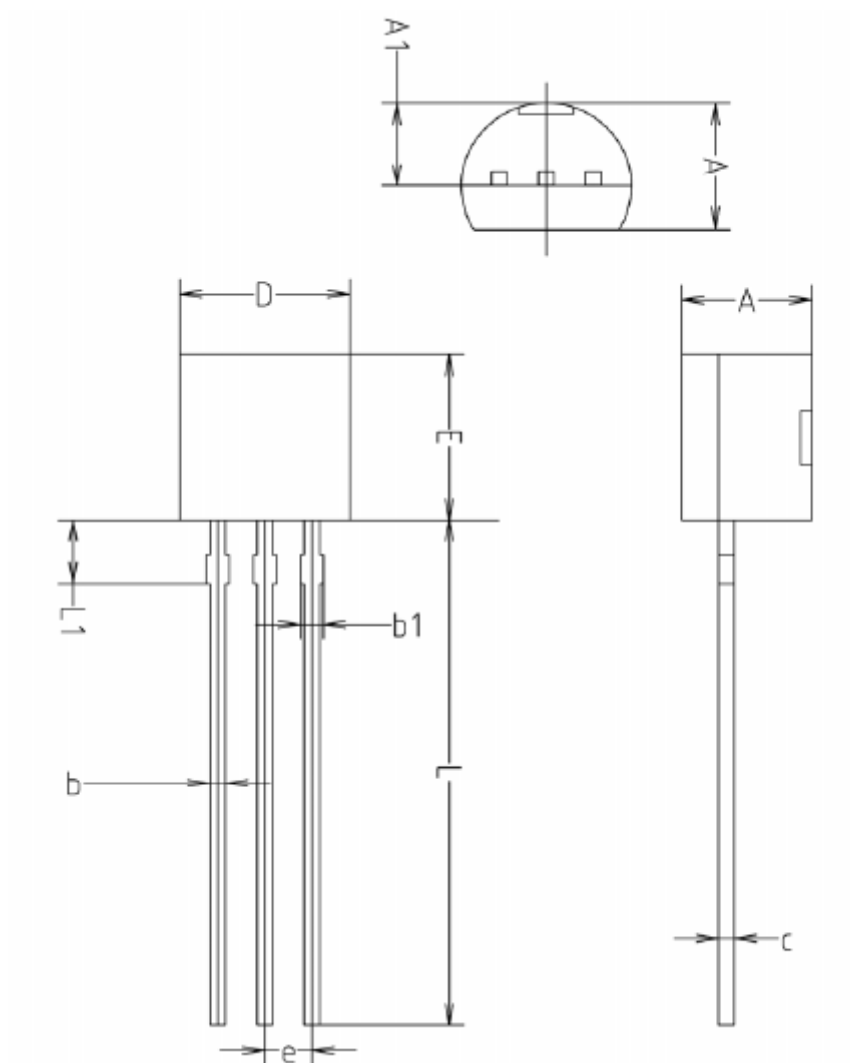
Fig. 1 $P_c - T_a$ Fig. 2 $I_c - V_{BE}$ Fig. 3 $I_c - V_{CE}$ Fig. 4 $V_{CE(SAT)} - I_c$ Fig. 5 $h_{FE} - I_c$ Fig. 6 $h_{FE} - I_c$ 

Electrical Characteristic Curves

Fig. 7 Safe operating Area



Outline Dimension



SYMBOL	MILLMETERS(mm)		
	MINIMUM	NOMINAL	MAXIMUM
A	3.40	3.50	3.66
A1	2.46	2.51	2.59
b	0.39	0.44	0.53
b1	0.39	—	0.63
c	0.35	0.42	0.47
D	4.48	4.60	4.70
E	4.48	4.60	4.70
e	1.17	1.27	1.37
L	13.70	14.00	14.77
L1	1.55	1.70	2.15

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