

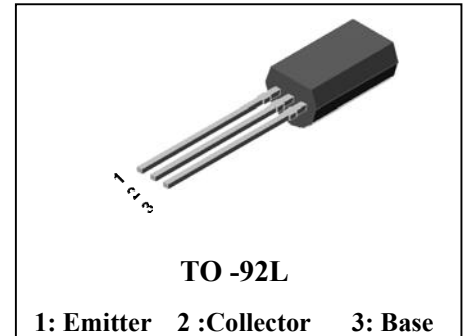
## Applications

- Power amplifier application
- High current switching application

## Features

- High current :  $I_C = -2A$
- Complementary pair with KTC4250L

## PIN Connection



## Ordering Information

Type NO.	Marking	Package Code
KTA3250L	KTA 3250 YWW●	TO-92L

DEVICE CODE, YWW(Y : Year code, WW : Weekly code) ● Dalian

## Absolute Maximum Ratings

[Ta=25°C]

Characteristic	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	-50	V
Collector-emitter voltage	$V_{CEO}$	-50	V
Emitter-base voltage	$V_{EBO}$	-5	V
Collector current	$I_C$	-2	A
Collector Power dissipation	$P_C(T_a=25^\circ\text{C})$	1	W
	$P_C(T_C=25^\circ\text{C})$	10	W
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-emitter breakdown voltage		$BV_{CEO}$	$I_C = -1\text{mA}, I_B = 0$	-50	-	-	V
Collector cut-off current		$I_{CBO}$	$V_{CB} = -50\text{V}, I_E = 0$	-	-	-0.1	$\mu\text{A}$
Emitter cut-off current		$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$	-	-	-0.1	$\mu\text{A}$
DC current gain		$h_{FE}$	$V_{CE} = -2\text{V}, I_C = -0.5\text{A}^*$	120	-	240	
		$h_{FE}$	$V_{CE} = -2\text{V}, I_C = -1.5\text{A}^*$	40	-	-	
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_C = -1\text{A}, I_B = -0.05\text{A}^*$	-	-	-0.35	V
Base-emitter saturation voltage		$V_{BE(sat)}$	$I_C = -1\text{A}, I_B = -0.05\text{A}^*$	-	-	-1.2	V
Transition frequency		$f_T$	$V_{CE} = -2\text{V}, I_C = -50\text{mA}$	-	215	-	MHz
Collector output capacitance		$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$	-	24	-	pF
Switching Time	Turn-on Time	$t_{on}$	<p style="font-size: small;">- <math>I_C = I_E = 0.05\text{A}</math> DUTY CYCLE <math>\leq 2\%</math></p>	-	100	-	nS
	Storage Time	$t_{stg}$		-	300	-	
	Fall Time	$t_f$		-	50	-	

\*: Pulse test:  $t_p \leq 300\mu\text{s}$ , Duty cycle  $\leq 2\%$

Electrical Characteristic Curves

Fig. 1  $P_C - T_a$

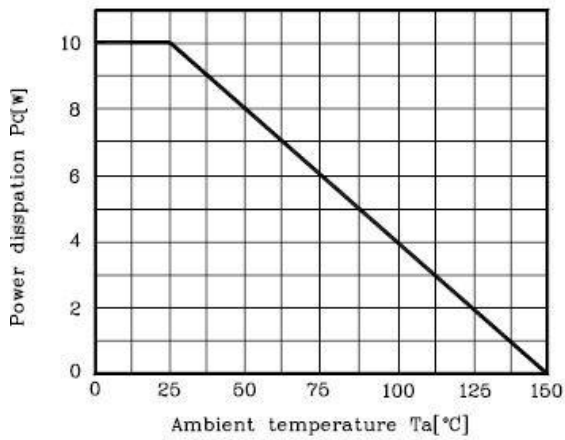


Fig. 2  $I_C - V_{BE}$

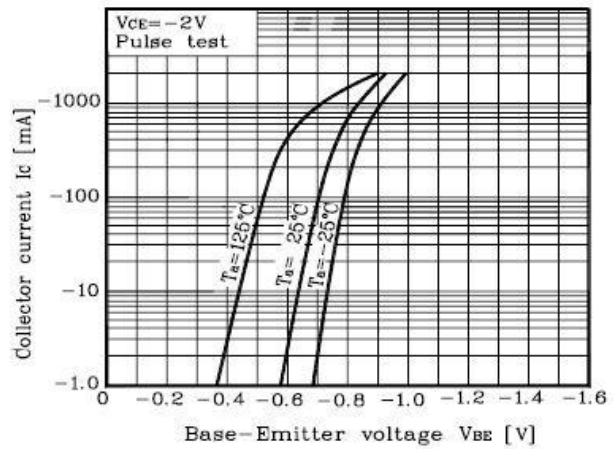


Fig. 3  $I_C - V_{CE}$

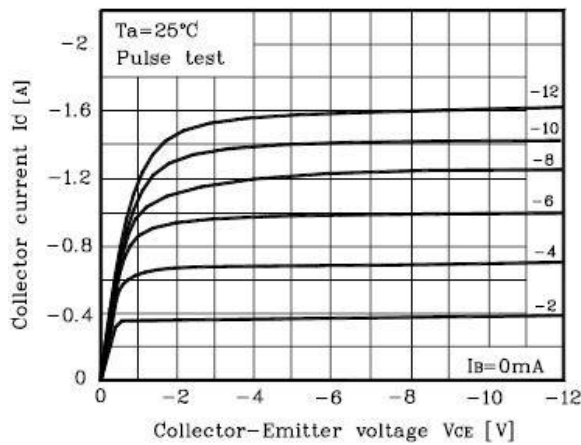


Fig. 4  $h_{FE} - I_C$

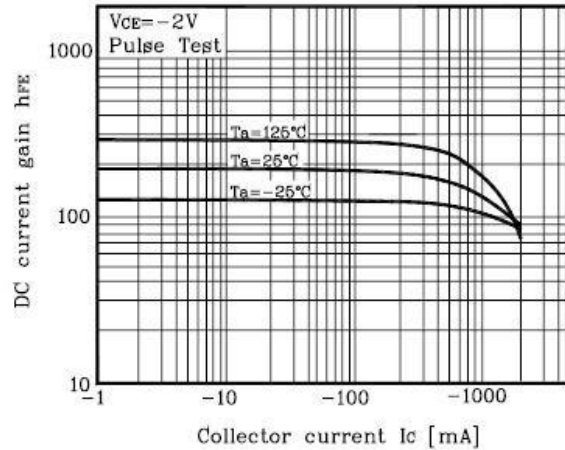


Fig. 5  $V_{CE(sat)} - I_C$

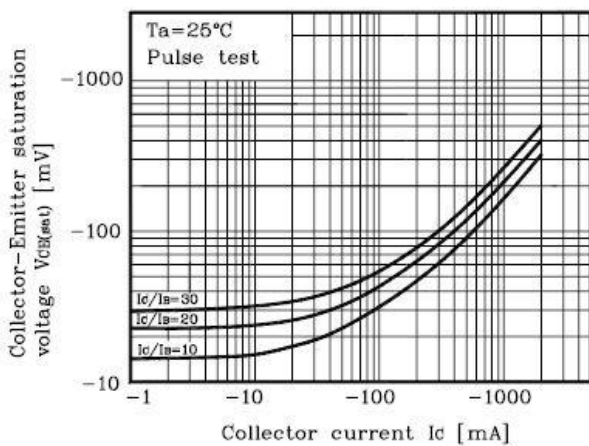
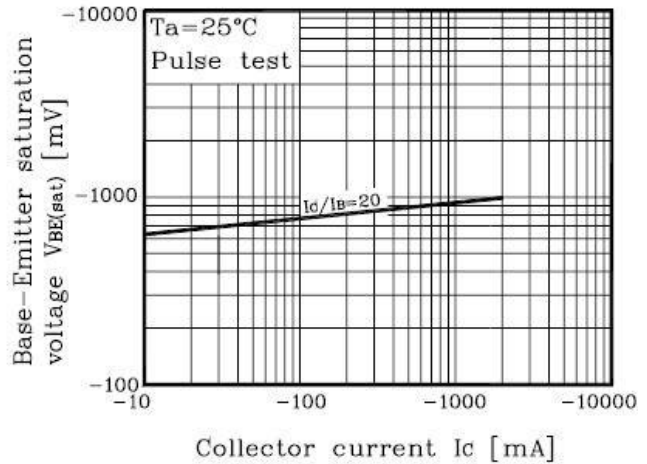


Fig. 6  $V_{BE(sat)} - I_C$



Electrical Characteristic Curves

Fig. 7  $C_{ob} - V_{CB}$

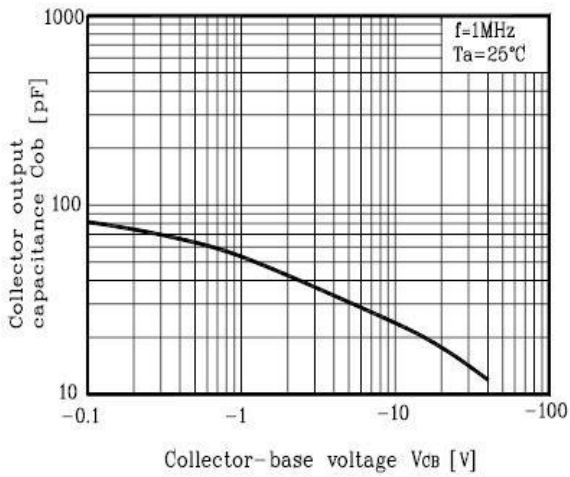
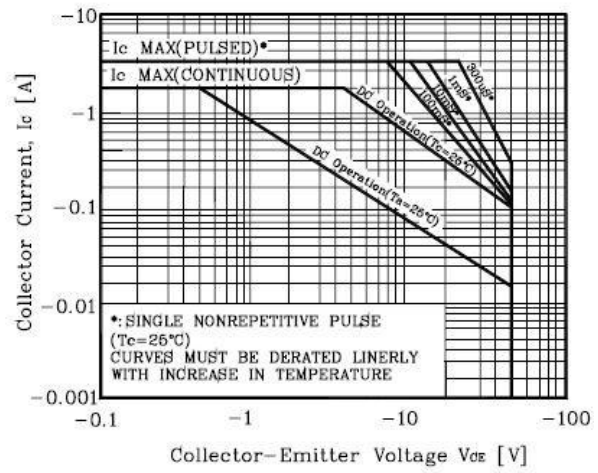
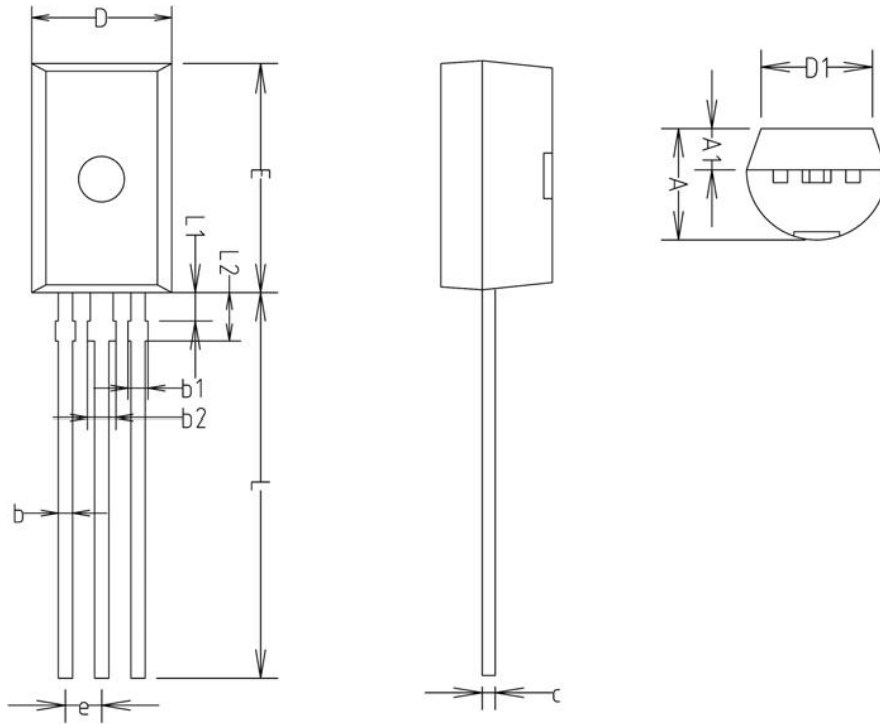


Fig. 8 Safe Operating Area



## Outline Dimension(mm)



SYMBOL	MILLMETERS(mm)			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	3.70	3.90	4.10	
A1	1.25	1.45	1.65	
b	0.40	0.50	0.60	
b1	—	—	0.70	
b2	—	—	1.00	
c	0.35	0.45	0.55	
D	4.70	4.90	5.10	
D1	3.70	3.90	4.10	
E	7.80	8.00	8.20	
e	1.27 TYP			
L	13.10	13.50	13.90	
L1	0.90	1.00	1.10	
L2	1.50	1.70	1.90	

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