



PNP Silicon Transistor

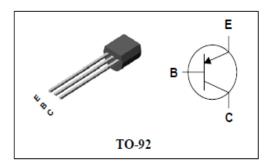
Descriptions

- General purpose amplifier
- High voltage application

Features

- High collector breakdown voltage : $V_{CBO} = -160V$, $V_{CEO} = -160V$
- Low collector saturation voltage : VCE(sat)=-0.5V(MAX.)
- Complementary pair with K2N5551

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
K2N5401	K2N5401□•	TO-92

□ : Year & Week Code

Dalian

Absolute Maximum Ratings

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	Vсво	-160	V
Collector-Emitter voltage	Vceo	-160	V
Emitter-Base voltage	Vebo	-5	V
Collector current	Ic	-600	mA
Collector dissipation	Pc	625	mW
Junction temperature	T_{j}	150	${\mathbb C}$
Storage temperature	T_{stg}	-55~150	$^{\circ}$

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	ВУсво	Ic=-100μA, IE=0	-160	ı	-	V
Collector-Emitter breakdown voltage	BVceo	Ic=-1mA, I _B =0	-160	ı	-	V
Emitter-Base breakdown voltage	ВVево	I _E =-10μA, I _C =0	-5	-	-	V
Collector cut-off current	Ісво	V _{CB} =-120V, I _E =0	ı	-	-100	nA
Emitter cut-off current	Iево	V _{EB} =-3V, I _C =0	ı	ı	-100	nA
DC current gain	hfE (1)	Vce=-5V, Ic=-1mA	50	-		-
DC current gain	hfE (2)	Vce=-5V, Ic=-10mA	60	-	240	-
DC current gain	hfE (3)	Vce=-5V, Ic=-50mA	50	-		-
Collector-Emitter saturation voltage	VCE(sat)(1)	Ic=-10mA, I _B =-1mA	-	-	-0.2	V
Collector-Emitter saturation voltage	* VCE(sat)(2)	Ic=-50mA, I _B =-5mA	ı	ı	-0.5	V
Base-Emitter saturation voltage	* VBE(sat)(1)	Ic=-10mA, I _B =-1mA	ı	ı	-1	V
Base-Emitter saturation voltage	* VBE(sat)(2)	Ic=-50mA, I _B =-5mA	ı	ı	-1	V
Transition frequency	f⊤	Vce=-10V, Ic=-10mA	100	-	400	MHz
Collector output capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz	-	-	6	pF

^{* :} Pulse Tester : Pulse Width $\leq\!300\mu\text{s},$ Duty Cycle $\leq\!2.0\%$

-1000

Electrical Characteristic Curves

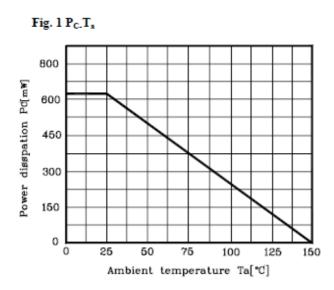
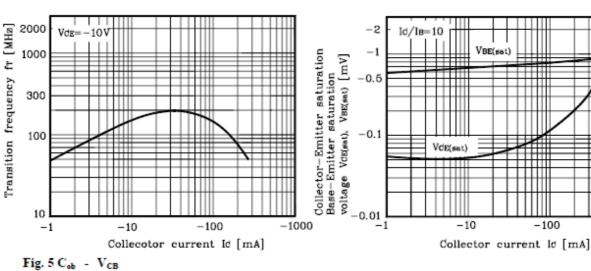
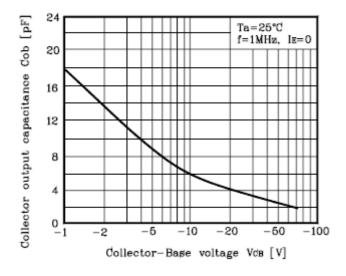


Fig. 2 I_C - V_{BE}

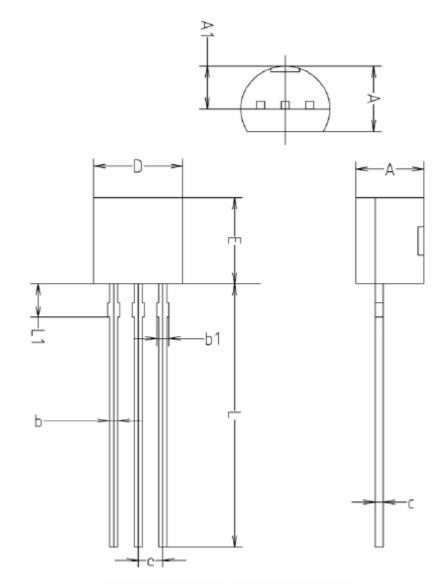
Fig. 4 VCE(sat). VBE(sat) - IC

Fig. 3 $f_{T}\ -\ I_{C}$





Outline Dimension



C. (145.0)	MILLMETERS(mm)				
SYMBOL	MINIMUM	NOMINAL	MAXIMUM		
Α	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		
С	0.35	0.42	0.47		
D	4.48	4.60	4.70		
E	4.48	4.60	4.70		
е	1.17	1.27	1.37		
L	13.70	14.00	14.77		
L1	1.55	1.70	2.15		

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