

PNP Silicon Transistor



Description

• General small signal amplifier

Features

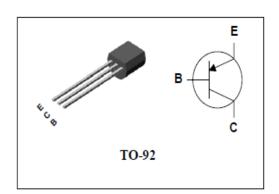
- Low collector saturation voltage
 - : $V_{CE(sat)} = -0.3V(Max.)$
- Low output capacitance : Cob=4pF(Typ.)
- Complementary pair with KC5343

Ordering Information

Type NO.	Marking	Package Code
KA1980	A1980•	TO-92

Dalian

PIN Connection



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-base voltage	Vсво	-50	V
Collector-emitter voltage	Vceo	-50	V
Emitter-base voltage	V EBO	-5	V
Collector current	I c	-150	mA
Collector power dissipation	Pc	500	mW
Junction temperature	Tj	150	$^{\circ}$
Storage temperature range	Tstg	-55~150	$^{\circ}$

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-base breakdown voltage	ВУсво	Ic=-100μA, Iε=0	-50	-	-	V
Collector-emitter breakdown voltage	BVCEO	Ic=-1mA, I _B =0	-50	-	-	V
Emitter-base breakdown voltage	ВVево	I _E =-10μA, I _C =0	-5	-	-	V
Collector cut-off current	Ісво	V _{CB} =-50V, I _E =0	-	-	-0.1	μА
Emitter cut-off current	І ЕВО	V _{EB} =-5V, I _C =0	-	-	-0.1	μА
DC current gain	h _{FE}	Vce=-6V, Ic=-2mA	70	-	700	-
Collector-emitter saturation voltage	VCE(sat)	Ic=-100mA, I _B =-10mA	-	-	-0.3	V
Transition frequency	f⊤	Vce=-10V, Ic=-1mA	80	-	-	MHz
Collector output capacitance	Соь	VCB=-10V, IE=0, f=1MHz	-	4	7	pF
Noise figure	NF	V_{CE} =-6V, I_{C} =-0.1mA f=1KHz, R_{G} =10K Ω	-	-	10	dB

^{*:} hFE rank / O : 70~140, Y : 120~240, G : 200~400, L : 300~700.

Electrical Characteristic Curves

Fig. 1 P_C - T_a

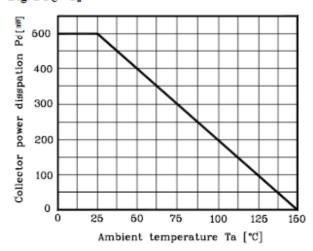


Fig. 3 I_C - V_{CE}

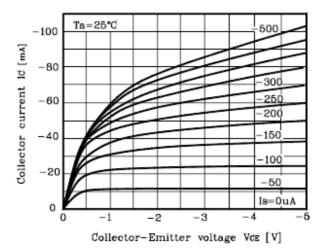


Fig. 5 V_{CE(sat)} - I_C

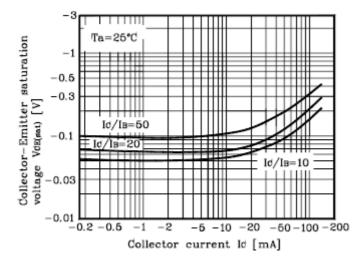


Fig. 2 I_C - V_{BE}

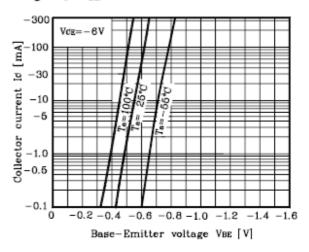
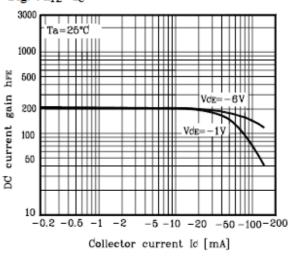
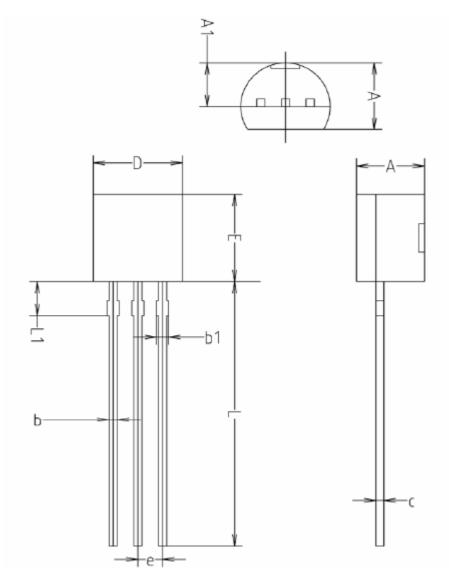


Fig. 4 h_{FE} - I_C



Outline Dimension



	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	
Ε	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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