



PNP Silicon Transistor

PIN Connection

TO-92

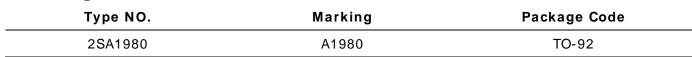
Description

• General small signal amplifier

Features

- Low collector saturation voltage
- : $V_{CE(sat)} = -0.3V(Max.)$
- Low output capacitance : $C_{ob} = 4pF(Typ.)$
- Complementary pair with 2SC5343

Ordering Information



Absolute Maximum Ratings

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

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	Ic	-150	m A
Collector power dissipation	Pc	500	m W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55~ 150	°C

Electrical Characteristics

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

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-base breakdown voltage	BV _{CBO}	$I_C = -100 \mu A, I_E = 0$	-50	-	-	V
Collector-emitter breakdown voltage	BV _{CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-50	-	-	V
Emitter-base breakdown voltage	BV _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = -50 \text{ V}, I_{E} = 0$	-	-	-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -5 V, I _C = 0	-	-	-0.1	μΑ
DC current gain	h _{FE} *	$V_{CE} = -6V, I_{C} = -2mA$	70	-	700	-
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA	-	-	-0.3	V
Transition frequency	f _T	V_{CE} = -10V, I_{C} = -1mA	80	-	-	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	-	4	7	pF
Noise figure	NF	V_{CE} = -6V, I_{C} = -0.1mA f= 1KHz, Rg = 10K Ω	-	-	10	dB

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

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Electrical Characteristic Curves

Fig. 1 P_C - T_a

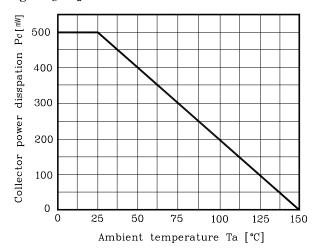


Fig. 3 I_{C} - V_{CE}

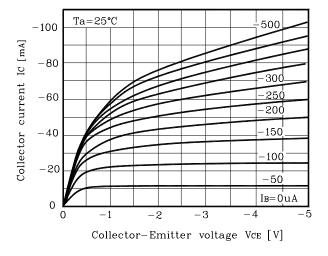


Fig. 5 $V_{\text{CE}(\text{sat})}$ - I_{C}

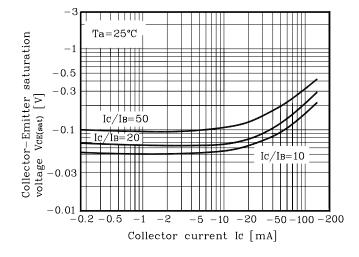


Fig. 2 I_{C} - V_{BE}

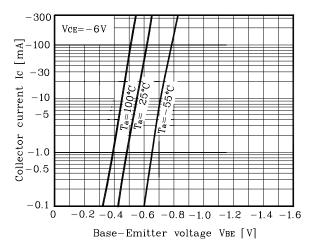
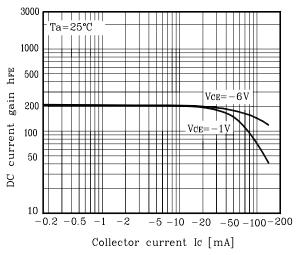
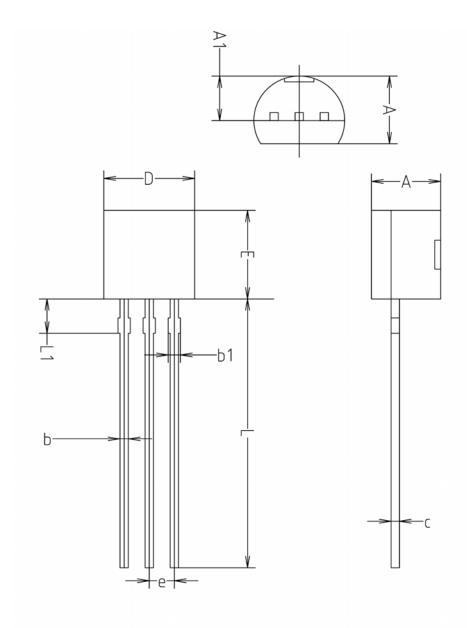


Fig. 4 h_{FE} - I_C



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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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