

PNP Silicon Transistor

unit : mm

Description

- General purpose application.
- Switching application.

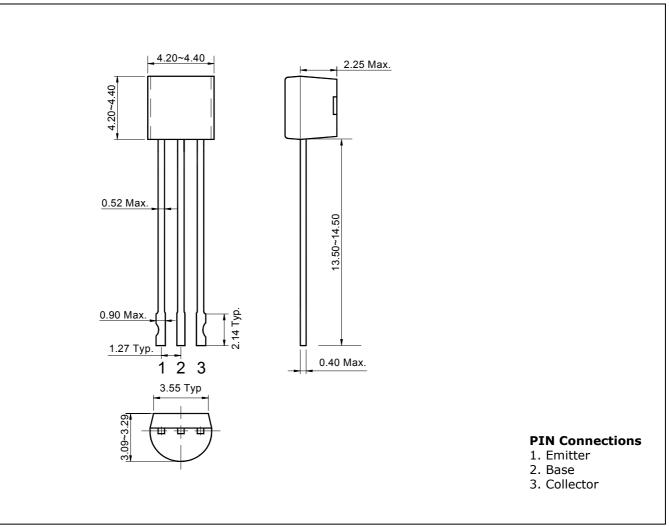
Features

- Excellent hre linearity : hre($I_C=0.1mA$) / hre($I_C=2mA$) = 0.95(Typ.)
- Complementary pair with STC9014N

Ordering Information

Type NO.	Marking	Package Code	
STA9015N	STA9015	TO-92N	

Outline Dimensions



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

Absolute Maximum Ratings

1 10 solute maximum matings	(1a = 5C)		
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	-150	mA
Collector power dissipation	P _C	500	mW
Junction temperature	TJ	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Electrical Characteristics

(Ta=25°C) Characteristic **Test Condition** Typ. Max. Symbol Min. Unit _ V Collector-emitter breakdown voltage $\mathsf{BV}_{\mathsf{CEO}}$ $I_C = -1mA$, $I_B = 0$ -50 - V_{CB} =-50V, I_{E} =0 Collector cut-off current I_{CBO} -50 nA _ _ Emitter cut-off current V_{EB} =-5V, I_{C} =0 --100 nA I_{EBO} V_{CE} =-5V, I_C =-1mA DC current gain h_{FE}^{*} 100 -1000 -_ -0.1 -0.3 V Collector-emitter saturation voltage I_C =-100mA, I_B =-10mA $V_{\text{CE(sat)}}$ Base-emitter voltage V_{CE} =-5V, I_C =-1mA -0.63 -0.8 V V_{BE} _ V_{CE} =-10V, I_C =-1mA _ 130 _ MHz Transition frequency f_{T} $V_{CB}{=}{-}10V,\ I_{E}{=}0,\ f{=}1MHz$ 4 Collector output capacitance C_{ob} -pF

*: h_{FE} rank / B : 100~300, C : 200~600, D : 400~1000.

-1.2

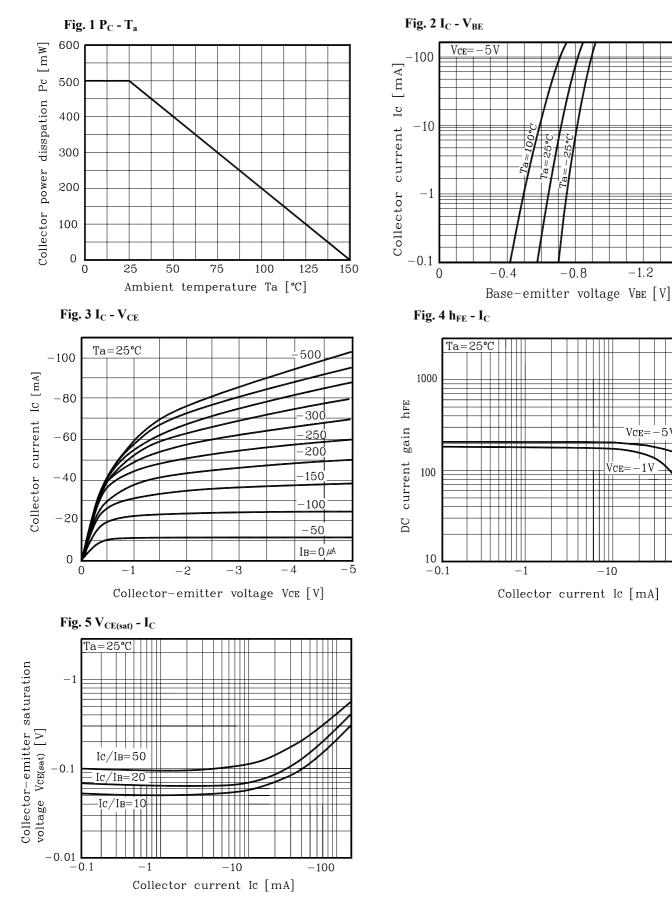
-5V

-100

Vce=

-1.6

Electrical Characteristic Curves



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