

STA92N

PNP Silicon Transistor

unit: mm

Descriptions

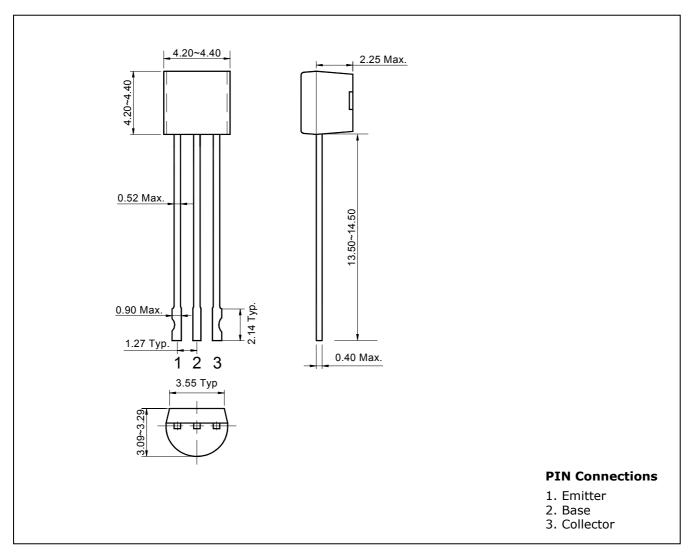
• High voltage application

Features

Ordering Information

Type NO.	Marking	Package Code	Package Code		
STA92N	STA92	T0-92N			

Outline Dimensions



KSD-T0C029-001

STA92N

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-300	V
Collector-emitter voltage	V_{CEO}	-300	V
Emitter-base voltage	V_{EBO}	-6	V
Collector current	I_{C}	-500	mA
Collector power dissipation	P_{C}	400	mW
Junction temperature	T ₁	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-300	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-300V, I_{E} =0	-	-	-0.1	μА
Emitter cut-off current	I_{EBO}	V_{EB} =-6V, I_C =0	-	-	-0.1	μА
DC current gain	h _{FE} *	V_{CE} =-10V, I_{C} =-30mA	40	-	-	-
Collector-emitter saturation voltage	V _{CE(sat)} *	I_C =-20mA, I_B =-2mA	-	-	-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}^{*}$	I_C =-20mA, I_B =-2mA	-	-	-0.9	V
Base-emitter voltage	V_{BE}	V_{CE} =-10V, I_{C} =-30mA	-	-0.7	-0.9	V
Transition frequency	f_{T}	V_{CE} =-20V, I_{C} =-10mA	-	80	1	MHz
Collector output capacitance	C _{ob}	V_{CB} =-20V, I_E =0, f=1MHz	-	3	-	pF

^{* :} Pulse Tester : Pulse Width≤ 300 \(\mu \sigma \), Duty Cycle≤ 2.0%

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Electrical Characteristic Curves

Fig. 1 h_{FE} - I_C

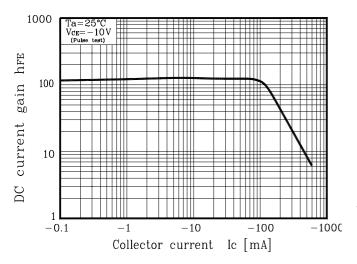


Fig. 2 V_{CE(sat)}, V_{BE(sat)} - I_C

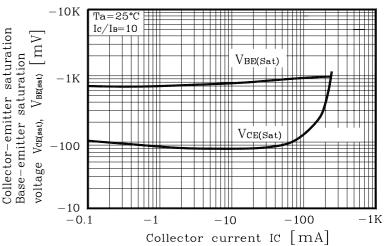


Fig. 3 $f_T - I_C$

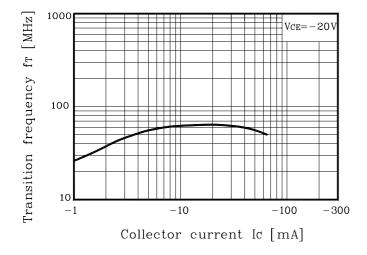
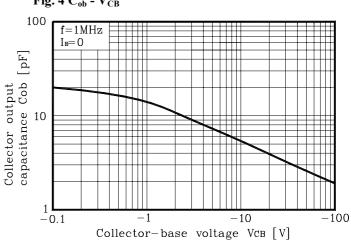


Fig. 4 Cob - VCB



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