

Features

- Suitable for low voltage large current drivers
- High DC current gain and large current capability
- Complementary pair with STC128N

Ordering Information

Type NO.	Marking	Package Code	
STA124N	STA124	TO-92N	

Outline Dimensions



unit : mm

STA124N

Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)		
Characteristic	Symbol	Rating	Unit		
Collector-base voltage	V _{CBO}	-15	V		
Collector-emitter voltage	V _{CEO}	-12	V		
Emitter-base voltage	V _{EBO}	-6.5	V		
Collector current	I _C	-1	А		
Collector power dissipation	P _C	400	mW		
Junction temperature	Τı	150	°C		
Storage temperature range	T_{stg}	-55~150	°C		

Electrical Characteristics

Electrical Characteristics (Ta=25						=25°C)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV_{CEO}	I_C =-1mA, I_B =0	-12	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-15V, I_E =0	-	-	-0.1	μA
Emitter cut-off current	\mathbf{I}_{EBO}	V _{EB} =-6.5V, I _C =0	-	-	-0.1	μA
DC current gain	h _{FE}	V_{CE} =-1V, I _C =-100mA	200	-	450	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_{C} =-500mA, I_{B} =-50mA	-	-0.2	-0.4	V
Base-emitter voltage	V_{BE}	V_{CE} =-1V, I _C =-100mA	-	-0.7	-0.9	V
Transition frequency	f _T	V_{CE} =-5V, I _C =-50mA	-	260	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_{E} =0, f=1MHz	-	5	-	pF

STA124N



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