

Description

• Medium power amplifier

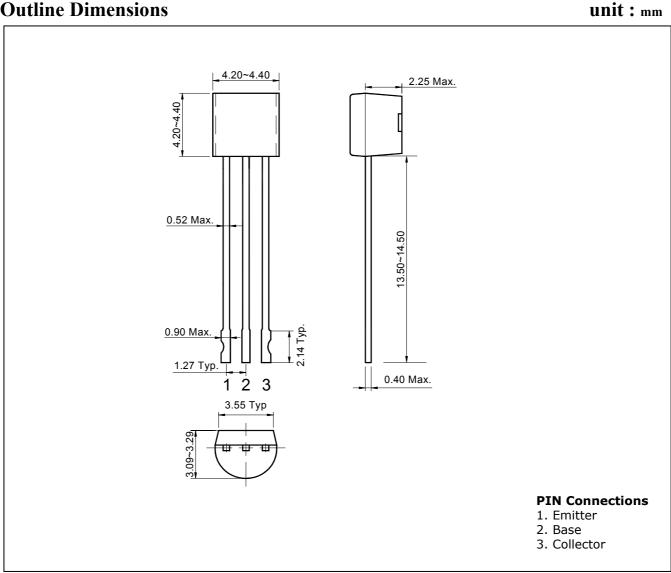
Features

- Large collector current : I_C =-500mA
- Low collector saturation voltage enabling low-voltage operation : $V_{CE(sat)} = -0.25$ Max.

Ordering Information

Type NO.	Marking	Package Code		
STS1979N	STS1979	TO-92N		

Outline Dimensions



STS1979N

Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)		
Characteristic	Symbol	Rating	Unit		
Collector-base voltage	V _{CBO}	-40	V		
Collector-emitter voltage	V _{CEO}	-32	V		
Emitter-base voltage	V _{EBO}	-5	V		
Collector current	I _C	-500	mA		
Collector power dissipation	P _C	400	mW		
Junction temperature	Tյ	150	°C		
Storage temperature range	T _{stg}	-55~150	°C		

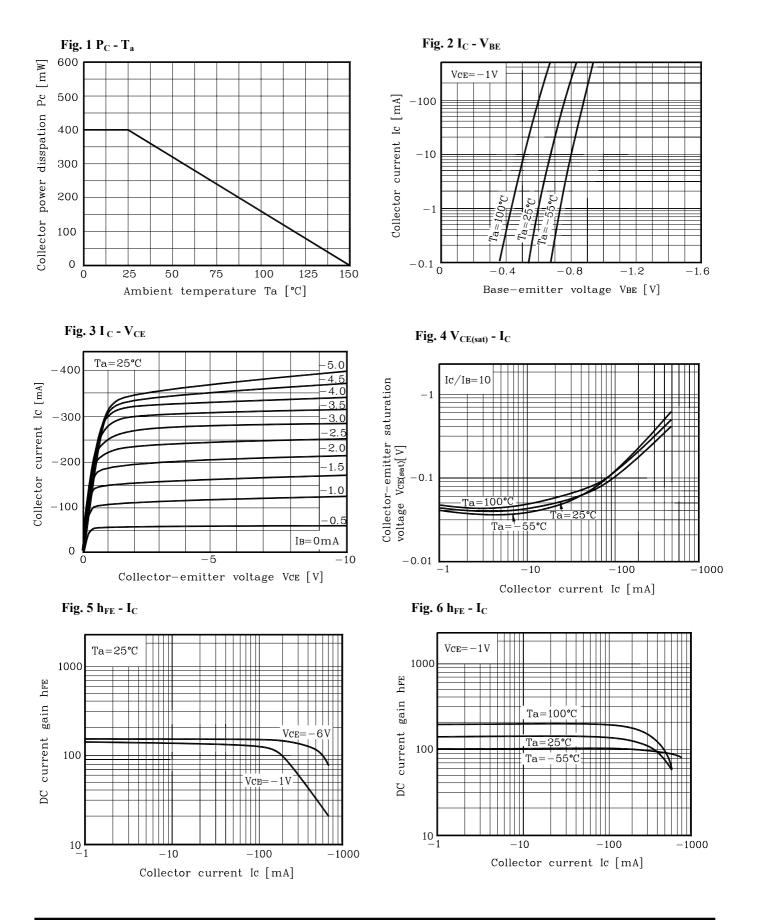
Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV_{CEO}	I_{C} =-10mA, I_{B} =0	-32	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-40V, I_{E} =0	-	-	-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB} =-5V, I_{C} =0	-	-	-0.1	μA
DC current gain	h _{FE}	V_{CE} =-1V, I _C =-100mA	120	-	240	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_{C} =-100mA, I_{B} =-10mA	-	-	-0.25	V
Base-emitter voltage	V_{BE}	V_{CE} =-1V, I _C =-100mA	-	-0.75	-1.0	V
Transition frequency	f_{T}	V_{CE} =-6V, I_C =-20mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-6V, I_E =0, f=1MHz	-	7.5	-	рF

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Electrical Characteristic Curves



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