

2SA1979M

PNP Silicon Transistor

unit : mm

Description

• Medium power amplifier

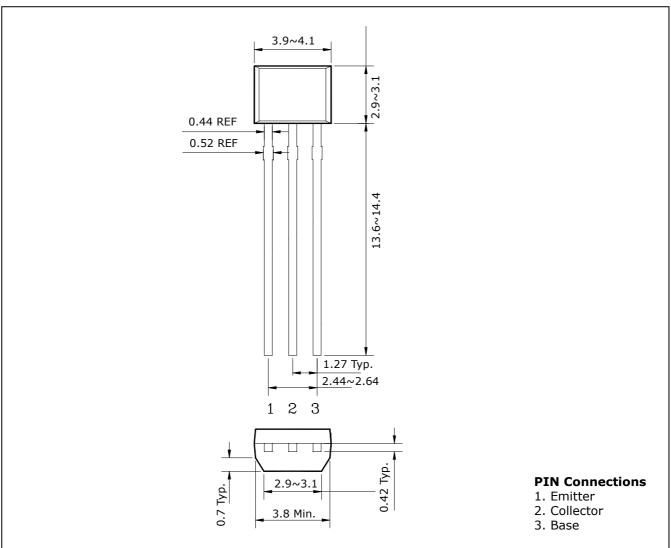
Features

- Large collector current : I_{CMax} =-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342M

Ordering Information

Type NO.	Marking	Package Code	
2SA1979M	1979	TO-92M	

Outline Dimensions



2SA1979M

Absolute maximum ratings

Absolute maximum ratings	(Ta=25°C)		
Characteristic	Symbol	Ratings	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 dissipation	P _C	400	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

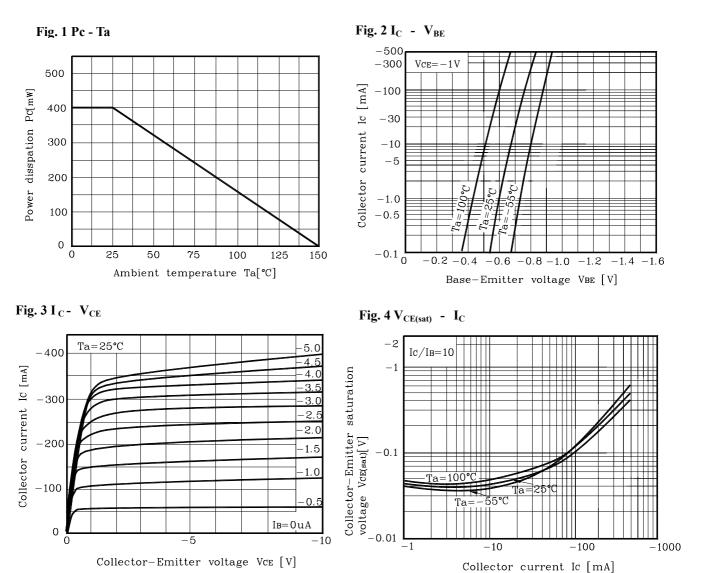
(Ta=25°C)

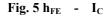
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV_{CBO}	I_{C} =-100 μ A, I_{E} =0	-40	-	-	V
Collector-Emitter breakdown voltage	BV_{CEO}	I_C =-1mA, I_B =0	-32	-	-	V
Emitter-Base breakdown voltage	BV_{EBO}	I_{E} =-10 μ A, I_{C} =0	-5	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-40V, I_{E} =0	-	-	-0.1	μA
Emitter cut-off current	\mathbf{I}_{EBO}	V _{EB} =-5V, I _C =0	-	-	-0.1	μA
DC current gain	h _{FE} *	V_{CE} =-1V, I _C =-100mA	70	-	240	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	I_{C} =-100mA, I_{B} =-10mA	-	-	-0.25	V
Transistor 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

* : h_{FE} rank / O : 70~140, Y : 120~240

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Electrical Characteristic Curves





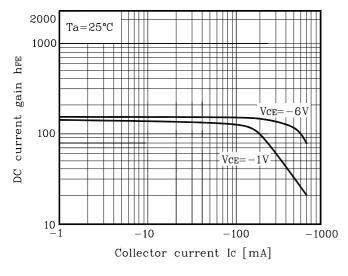
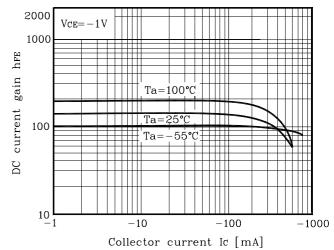


Fig. 6 h_{FE} - I_C



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