

Description

• Medium power amplifier

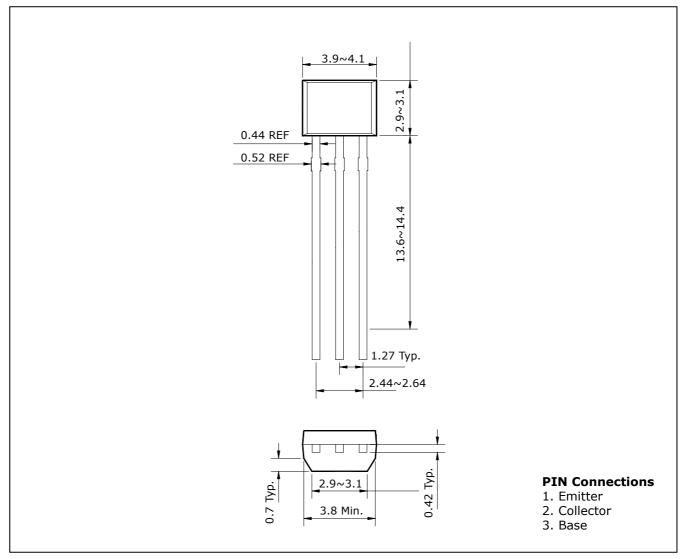
Features

- 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 unit : mm



Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	-40	V
Collector-Emitter voltage	$V_{\sf CEO}$	-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}	$I_C = -100 \mu A, I_E = 0$	-40	-	1	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-32	-	1	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-40V, I_{E} =0	-	-	-0.1	μА
Emitter cut-off current	I_{EBO}	V_{EB} =-5V, I_C =0	-	-	-0.1	μΑ
DC current gain	h _{FE} *	V _{CE} =-1V, I _C =-100mA	70	-	240	1
Collector-Emitter saturation voltage	$V_{\text{CE(sat)}}$	I _C =-100mA, I _B =-10mA	-	-	-0.25	٧
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	-	pF

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

Electrical Characteristic Curves



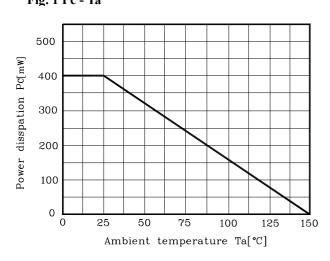


Fig. 2 I_C - V_{BE}

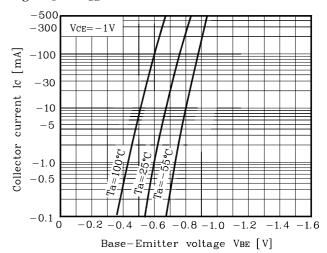


Fig. 3 I $_{\text{C}}\text{-}\ V_{\text{CE}}$

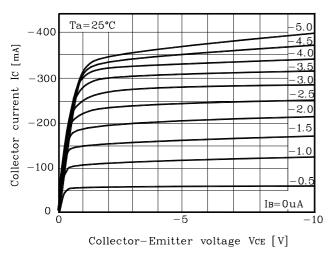


Fig. 4 $V_{CE(sat)}$ - I_C

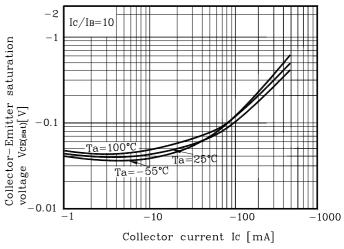


Fig. 5 h_{FE} - I_{C}

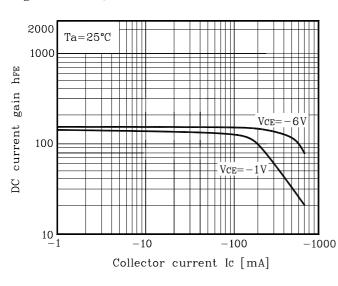
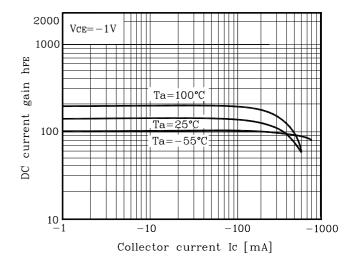


Fig. 6 h_{FE} - I_C



These AUK products are intended for usage in general electronic equipments (Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.