

Description

• Medium power amplifier

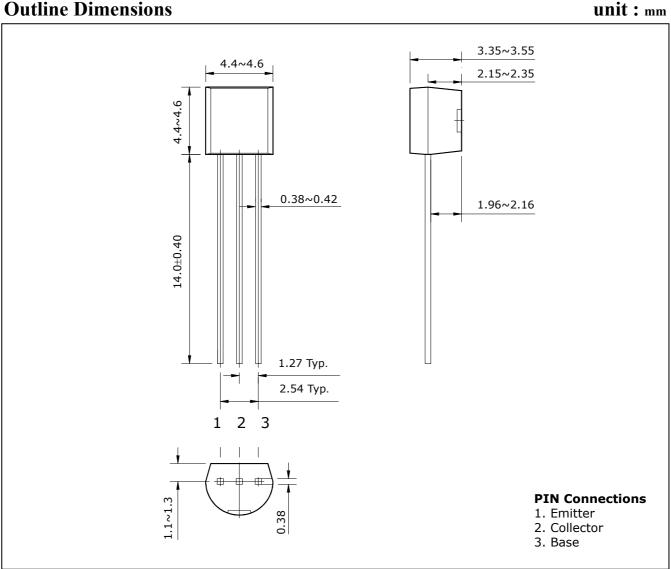
Features

- Large collector current : I_{CMax} =-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342

Ordering Information

Type NO.	Marking	Package Code		
2SA1979	A1979	TO-92		

Outline Dimensions



KST-9001-002

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	625	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	μА
DC current gain	h _{FE} *	V _{CE} =-1V, I _C =-100mA	70	-	240	-
Collector-Emitter saturation voltage	$V_{\text{CE(sat)}}$	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	-	pF

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

KST-9001-002 2

Electrical Characteristic Curves



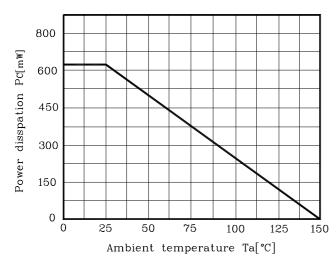


Fig. 2 I_C - V_{BE}

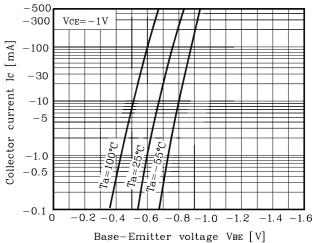


Fig. 3 I $_{\rm C}$ - $V_{\rm CE}$

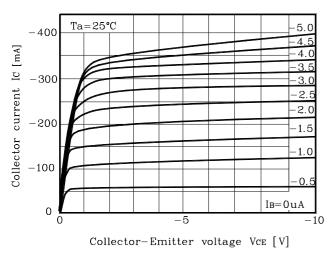


Fig. 4 $V_{CE(sat)}$ - I_{C}

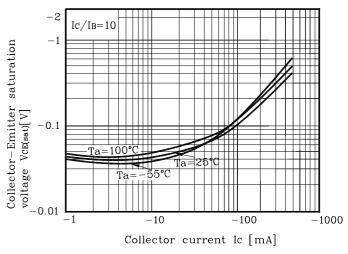


Fig. 5 h_{FE} - I_{C}

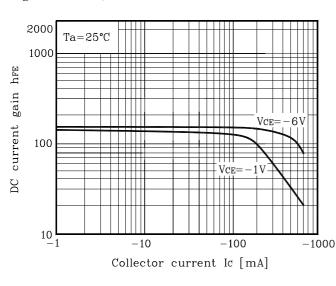
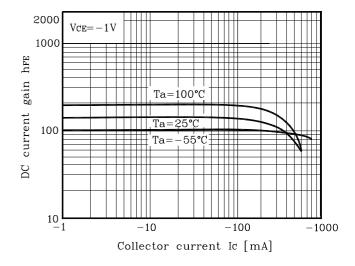


Fig. 6 h_{FE} - I_C



KST-9001-002 3

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KST-9001-002 4