



Description

• Audio power amplifier application

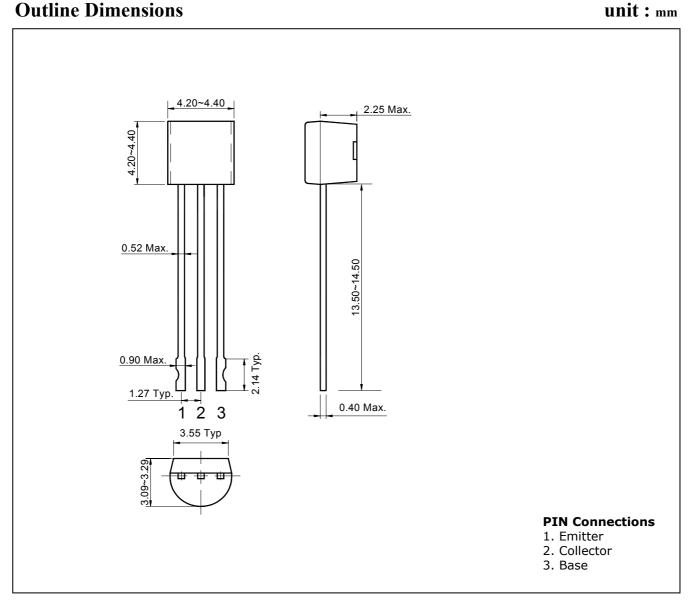
Features

- High DC current gain : $h_{FE}=100\sim320$
- Complementary pair with 2SA1981N

Ordering Information

Type NO.	Marking	Package Code		
2SC5344N	C5344	TO-92N		

Outline Dimensions



KSD-T0C032-000

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	35	V
Collector-emitter voltage	V_{CEO}	30	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_{C}	800	mA
Collector power dissipation	P_{C}	400	mW
Junction temperature	T ₁	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	30	1	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = 35V, I_{E} = 0$	-	1	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	100	-	320	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =500mA, I _B =50mA	-	1	0.5	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 =10mA	-	180	-	MHz
Collector output capacitance	C _{ob}	$V_{CB}=10V$, $I_{E}=0$, $f=1MHz$	-	13	1	pF

^{* :} h_{FE} rank / O : 100 \sim 200, Y : 160 \sim 320

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Electrical Characteristic Curves

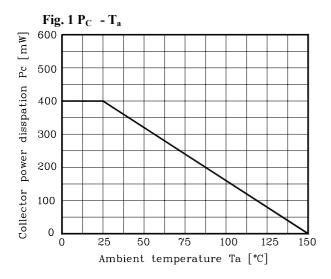


Fig. 3 I_C - V_{CE}

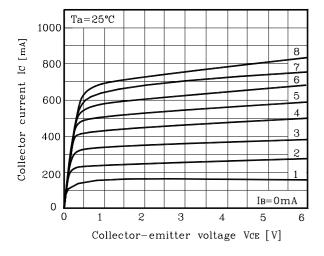


Fig. 5 h_{FE} - I_{C}

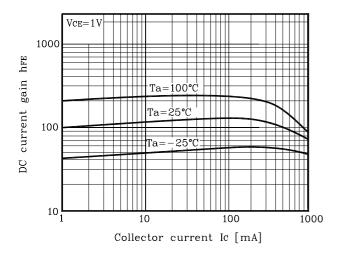


Fig. 2 I_C - V_{BE}

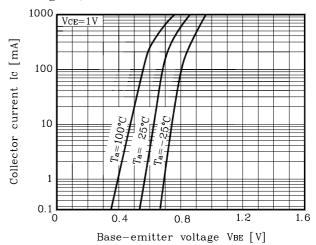
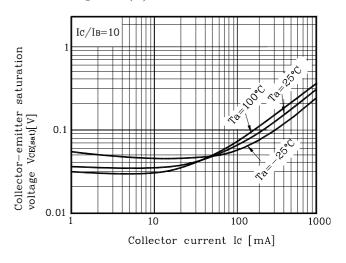


Fig. 4 $V_{CE(sat)}$ - I_{C}



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