



Description

- Audio power amplifier
- High current application

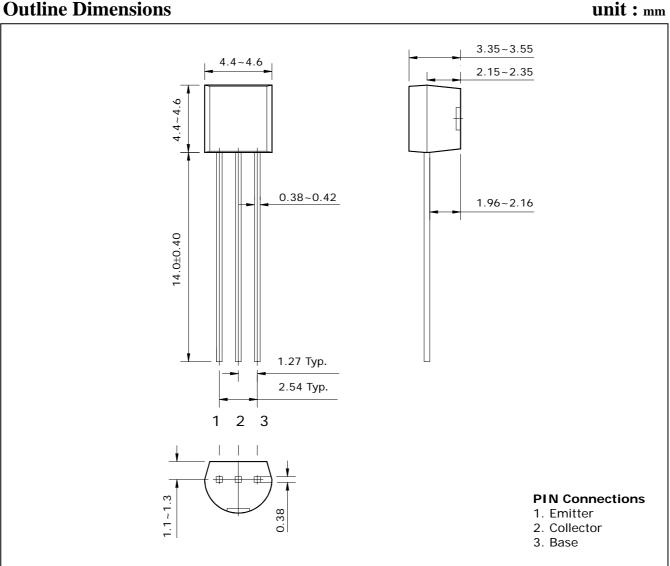
Features

- High current : I_C=-2A
- Complementary pair with STD1862

Ordering Information

Type NO.	Marking Package Code			
STB1277	STB1277	TO-92		

Outline Dimensions



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Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	-30	V
Collector-Emitter voltage	$V_{\sf CEO}$	-30	V
Emitter-Base voltage	V_{EBO}	-5	V
Collector current	I _C	-2	Α
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}	$I_C = -100 \mu A, I_E = 0$	-30	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1mA$, $I_B=0$	-30	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E=-1mA$, $I_C=0$	-5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = -30V, I_{E} = 0$	-	-	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5V$, $I_{C} = 0$	-	-	-100	nA
DC current gain	h _{FE} *	$V_{CE} = -2V$, $I_{C} = -500$ mA	100	-	320	-
Base-Emitter on voltage	V _{BE(on)}	V _{CE} =-2V, I _C =-500mA	-	-	-1	V
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =-2A, I _B =-0.2A	-	-	-0.8	V
Transition frequency	f _T	V_{CB} =-5V, I_{C} =-50mA	-	170	-	MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	48	-	pF

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

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Electrical Characteristic Curves

Fig. 1 P_C - T_a

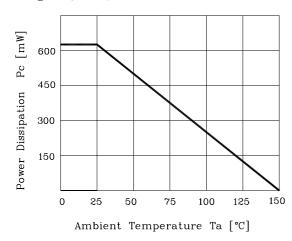


Fig. 3 I $_{\text{C}}$ - $\,V_{\text{CE}}$

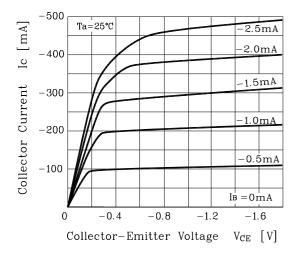


Fig. 5 $h_{FE}\$ - $\ I_{C}$

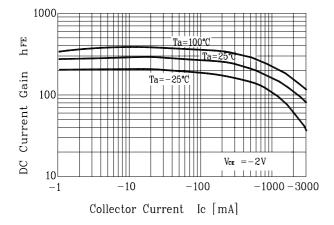


Fig. 2 $I_{C}\,$ - $\,V_{BE}\,$

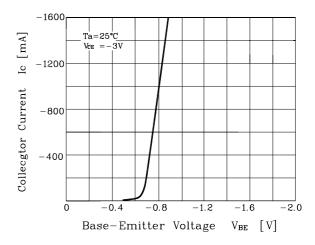
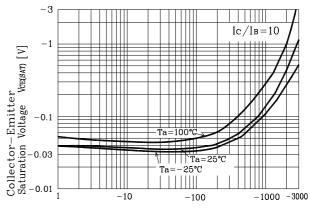


Fig. 4 $V_{CE(sat)}$ - I_C



Collector Current Ic [mA]

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