



PIN Connection

TO-92



Descriptions

- Audio power amplifier
- High current application

Features

• High current : I_C= 2A

• Complementary pair with STB1277

Ordering Information

Type NO.	Marking	Package Code
STD1862	STD1862	TO-92

Absolute maximum ratings

(Ta=25°C)

			(======)
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	30	V
Collector-Emitter voltage	V_{CEO}	30	V
Emitter-Base voltage	V_{EBO}	5	V
Collector current	Ic	2	А
Collector dissipation	P _C	500	m W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~ 150	°C

Electrical Characteristics

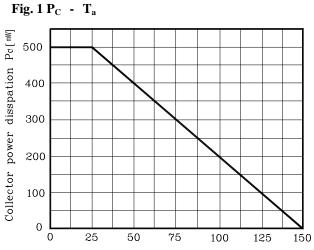
(Ta=25°C)

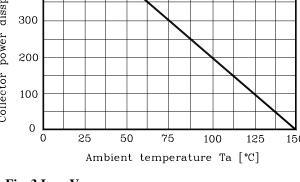
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_C = 100 \mu A, I_E = 0$	30	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C = 10 \text{ m A}, I_B = 0$	30	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E = 1 \text{ m A}, I_C = 0$	5	-	-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

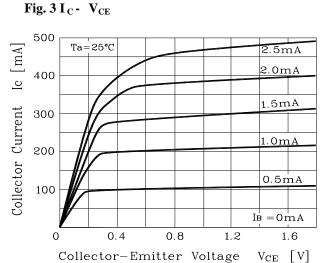
^{* :} h_{FE} rank / O : 100~200, Y : 160~320

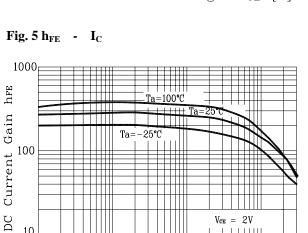
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Electrical Characteristic Curves

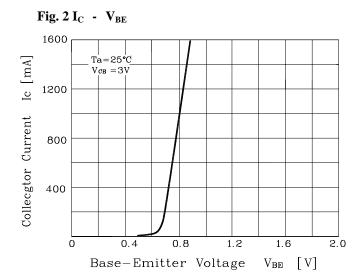


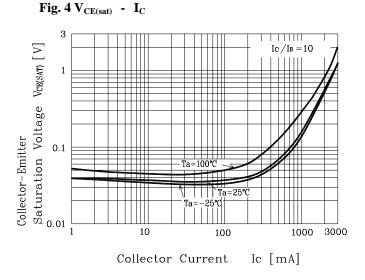






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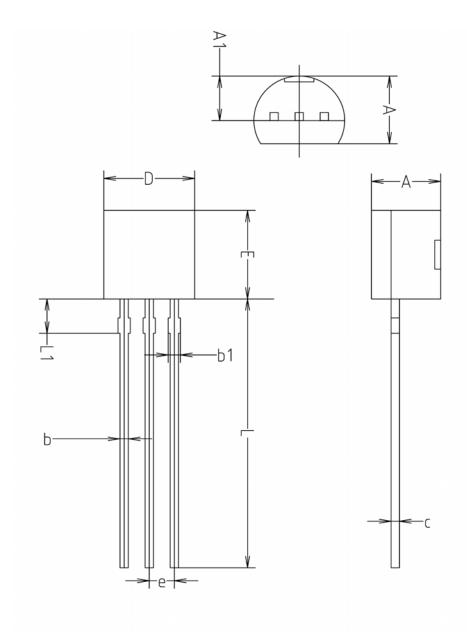
Collector Current Ic [mA]

1000 3000

100

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Outline Dimension



	MILLMETERS(mm)				
SYMBOL	MINIMUM	NOMINAL	MAXIMUM		
Α	3.40	3.50	3.66		
A1	2.46	2.51	2.59		
b	0.39	0.44	0.53		
b1	0.39	-	0.63		
С	0.35	0.42	0.47		
D	4.48	4.60	4.70		
Ε	4.48	4.60	4.70		
е	1.17	1.27	1.37		
L	13.70	14.00	14.77		
L1	1.55	1.70	2.15		

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