

NPN Silicon Transistor

 $(Ta=25^{\circ}C)$

(Ta=25°C)

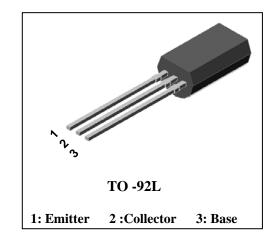
Descriptions

- Audio power amplifier
- High current application

Features

- High current : I_c=2A
- Complementary pair with STB1277L

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
STD1862L	STD1862	TO-92L

Absolute maximum ratings

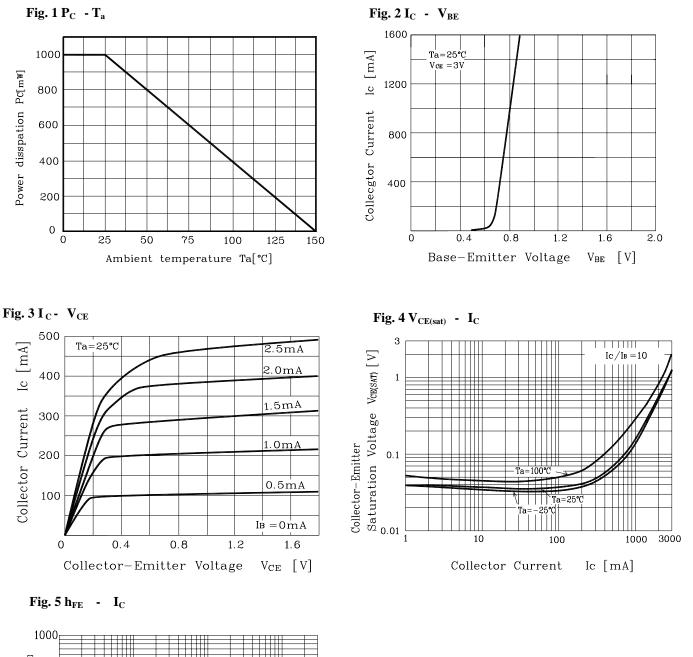
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Characteristic	Symbol	Ratings	Unit	
Collector-Base voltage	V _{CBO}	30	V	
Collector-Emitter voltage	V _{CEO}	30	V	
Emitter-Base voltage	V _{EBO}	5	V	
Collector current	Ι _C	2	А	
Collector dissipation	P _C	1	W	
Junction temperature	Tj	150	٥C	
Storage temperature	T _{stg}	-55~150	°C	

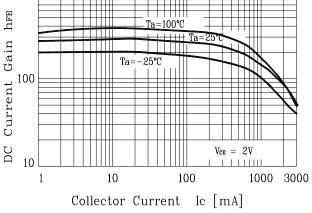
Electrical Characteristics

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}	$I_{C}=10mA$, $I_{B}=0$	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} =500mA	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

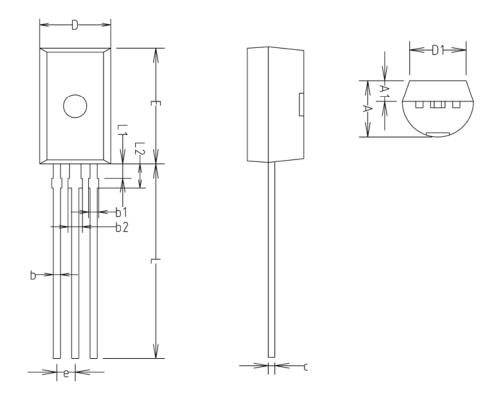
* : h_{FE} rank / O : 100~200, Y : 160~320

Electrical Characteristic Curves





Outline Dimension



	MILLMETERS(mm)			
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	NOTE
A	3.70	3.90	4.10	
A1	1.25	1.45	1.65	
b	0.40	0.50	0.60	
b1	-	-	0.70	
b2	-	_	1.00	
С	0.35	0.45	0.55	
D	4.70	4.90	5.10	
D1	3.70	3.90	4.10	
E	7.80	8.00	8.20	
е	1.27 TYP			
L	13.10	13.50	13.90	
L1	0.90	1.00	1.10	
L2	1.50	1.70	1.90	

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