





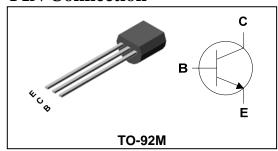
Description

• Medium power amplifier

Features

- Large collector current : I_C=500mA
- Low collector saturation voltage enabling low-voltage operation
- Complementary pair with 2SA1979M

PIN Connection



Ordering Information

Type NO.	Marking	Package Code	
2SC5342M	5342	TO-92M	

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	400	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	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=1mA$, $I_B=0$	32	-	-	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 _{CE(sat)}	I _C =100mA, I _B =10mA	-		0.25	V
Transition frequency	f _T	V _{CE} =6V, I _C =20mA	-	300	-	MHz
Collector output capacitance	C _{ob}	$V_{CB}=6V$, $I_{E}=0$, $f=1MHz$	-	7.0	-	pF

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

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Electrical Characteristic Curves

Fig. 1 Pc - Ta

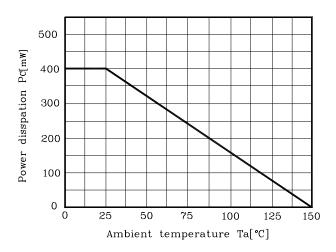


Fig. 3 I_{C} - V_{CE}

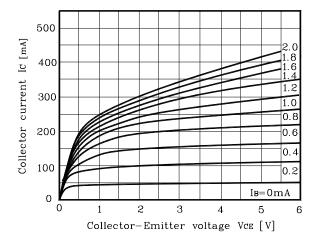


Fig. 5 h_{FE} - I_C

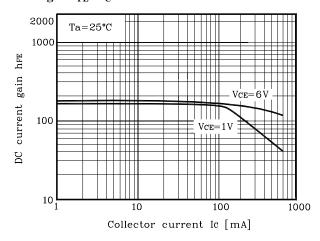


Fig. 2 I_{C} - V_{BE}

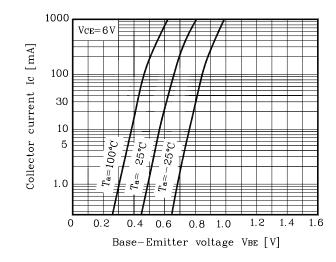
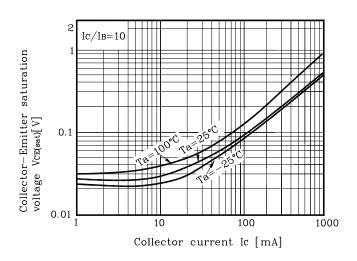
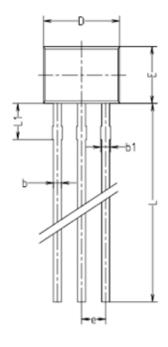


Fig. 4 $V_{\text{CE(SAT)}}$ - I_{C}

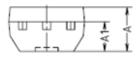


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Outline Dimension







	TO-92M				
SYMBOL	MINIMUM	NOMINAL	MAXIMUM		
Α	2.25	2.30	2.35		
A1	1.50	1.55	1.60		
b	0.40	0.42	0.44		
b1	0.40	_	0.50		
С	0.40	0.42	0.44		
D	3.93	4.00	4.07		
E	2.93	3.00	3.07		
е	1.17	1.27	1.37		
L	14.30	14.50	14.70		
1.1	2.05	2.15	2.25		

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