

BC856

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

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PNP Silicon Transistor

Descriptions

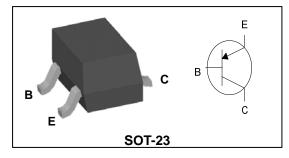
- General purpose application
- Switching application

Features

- High voltage : V_{CEO}=-55V
- Complementary pair with BC846

Ordering Information

PIN Connection



Type NO.	Marking	Package Code
BC856	<u>TA</u> <u></u> 1 2 3	SOT-23

① Device Code ② hFE Rank ③ Year&Week Code

Absolute maximum ratings

	(10-20 C)		
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	-80	V
Collector-Emitter voltage	V _{CEO}	-55	V
Emitter-Base voltage	V _{EBO}	-5	V
Collector current	Ι _C	-100	mA
Collector dissipation	P _C	200	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

Accuration characteristics (1a-23 C						_C ()
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BV _{CEO}	I_{C} =-2mA, I_{B} =0	-55	-	-	V
Base-Emitter turn on voltage	V _{BE(ON)}	V_{CE} =-5V, I_{C} =-2mA	-	-	-700	mV
Base-Emitter saturation voltage	V _{BE(sat)}	I_{C} =-100mA, I_{B} =-5mA	-	-900	-	mV
Collector-Emitter saturation voltage	V _{CE(sat)}	I_{c} =-100mA, I_{B} =-5mA	-	-	-650	mV
Collector cut-off current	I _{CBO}	V_{CB} =-35V, I_{E} =0	-	-	-15	nA
DC current gain	h _{FE} *	V_{CE} =-5V, I_{C} =-2mA	110	-	800	-
Transition frequency	f _T	V_{CB} =-5V, I_{C} =-10mA	-	150	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_{E} =0, f=1MHz	-	-	4.5	pF
Noise figure	NF	V _{CE} =-5V, I _C =-200μA, f=1KHz,Rg=2KΩ	-	-	10	dB

* : h_{FE} rank / A : 110 ~ 220, B : 200 ~ 450, C : 420 ~ 800

Electrical Characteristic Curves

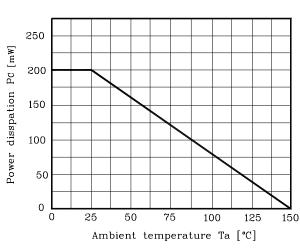


Fig. 1 P_C-T_a

Fig. 3 I_C-V_{CE}

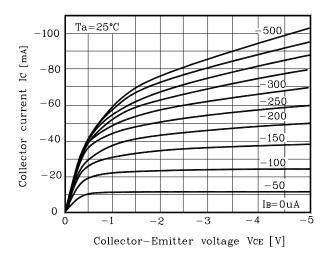
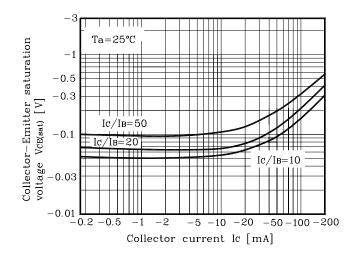
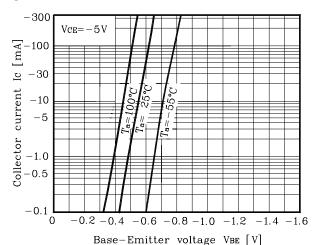


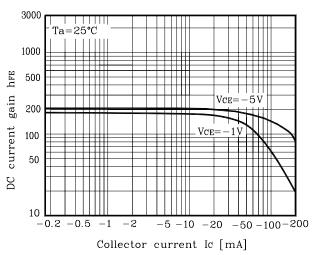
Fig. 5 $V_{CE(sat)}$ -I_C





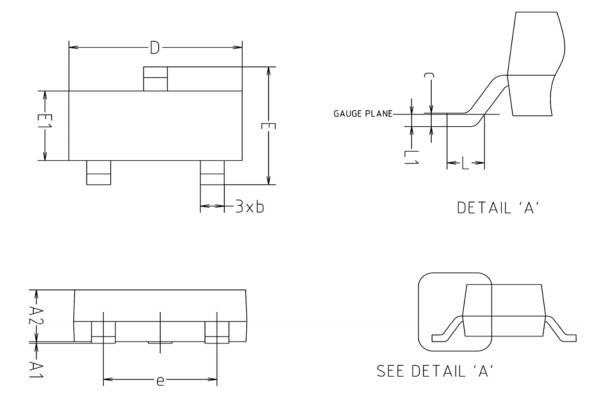






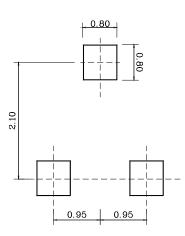
BC856

Outline Dimension



SYMBOL	MILLIMETERS			NOTE
STIDUL	MINIMUM	NOMINAL	MAXIMUM	NOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
E	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
e	1.90BSC			
L	0.20	-	-	
L1	0.12BSC			

*Recommend PCB solder land [Unit: mm]



BC856

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