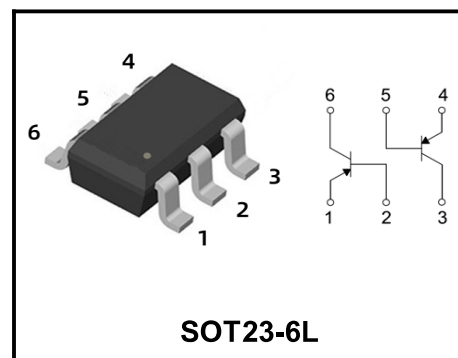


Plastic-Encapsulate Transistors

DUAL TRANSISTOR (PNP+PNP)

Features

- ◆Two transistors in one package
- ◆Reduces number of components and board space
- ◆No mutual interference between the transistors



Marking Code	
BC856F	5Ft

MAXIMUM RATINGS

(Ta=25°C unless otherwise noted)

Parameters	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-65	V
Emitter -Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I_C	-0.1	A
Collector Dissipation	P_C	0.2	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55-+150	°C

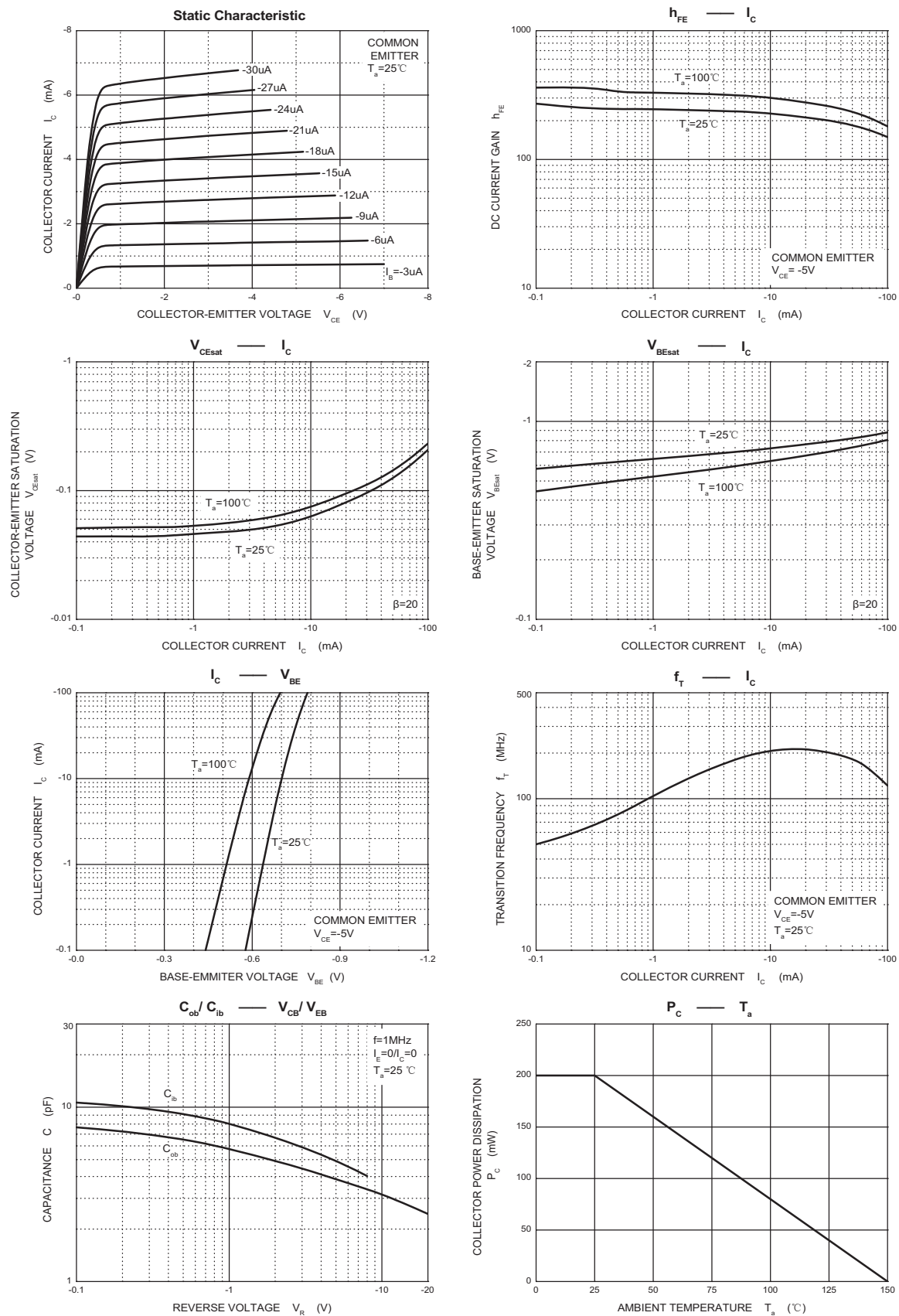
ELECTRICAL CHARACTERISTICS PNP 540I

(Ta=25°C unless otherwise specified)

Parameter	Symbols	Test Condition	Limits			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-80	-	-	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-65	-	-	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = -30V, I_E = 0$	-	-	-15	nA
Emitter cut-off current	I_{EBO}	$I_C = 0, I_B = -5V$	-	-	-100	nA
DC current gain	h_{FE}	$V_{CB} = -5V, I_C = -2mA$	200		450	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -0.5mA$	-	-	-0.1	V
		$I_C = -100mA, I_B = -5mA^*$	-	-	-0.3	V
Base -emitter saturation voltage	$V_{BE(sat)}$	$I_C = -10mA, I_B = -0.5mA$	-	0.7	-	V
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	-	2.5	pF
Transition frequency	f_T	$V_{CE} = -5V, I_C = -10mA, f = 100MHz$	100	-	-	MHz

*pulse test: PWs350μS, 0s2% .

Typical Characteristics



Ordering information

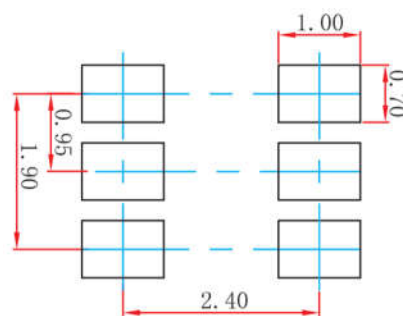
Package	Packing Description	Packing Quantity
SOT23-6L	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOT23-6L

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	1.05	1.25	41	49
A1	0	0.10	0	3.9
A2	1.05	1.15	41	45
b	0.30	0.50	11.8	19.7
c	0.10	0.20	3.9	7.9
D	2.82	3.02	111	119
E1	1.50	1.70	45	67
E	2.65	2.95	104	116
e	0.950(BSC)		37(BSC)	
e1	1.80	2.00	71	79
L	0.30	0.60	11.8	23.6
θ	0°	8°	0°	8°

The recommended mounting pad size



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