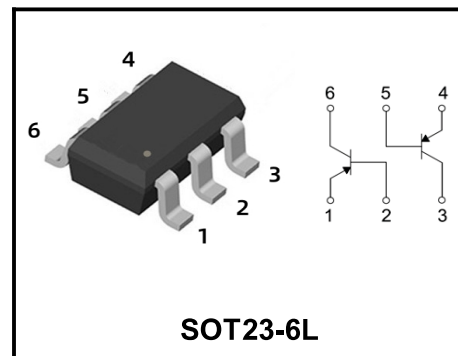


Plastic-Encapsulate Transistors

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	
BC856BF	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

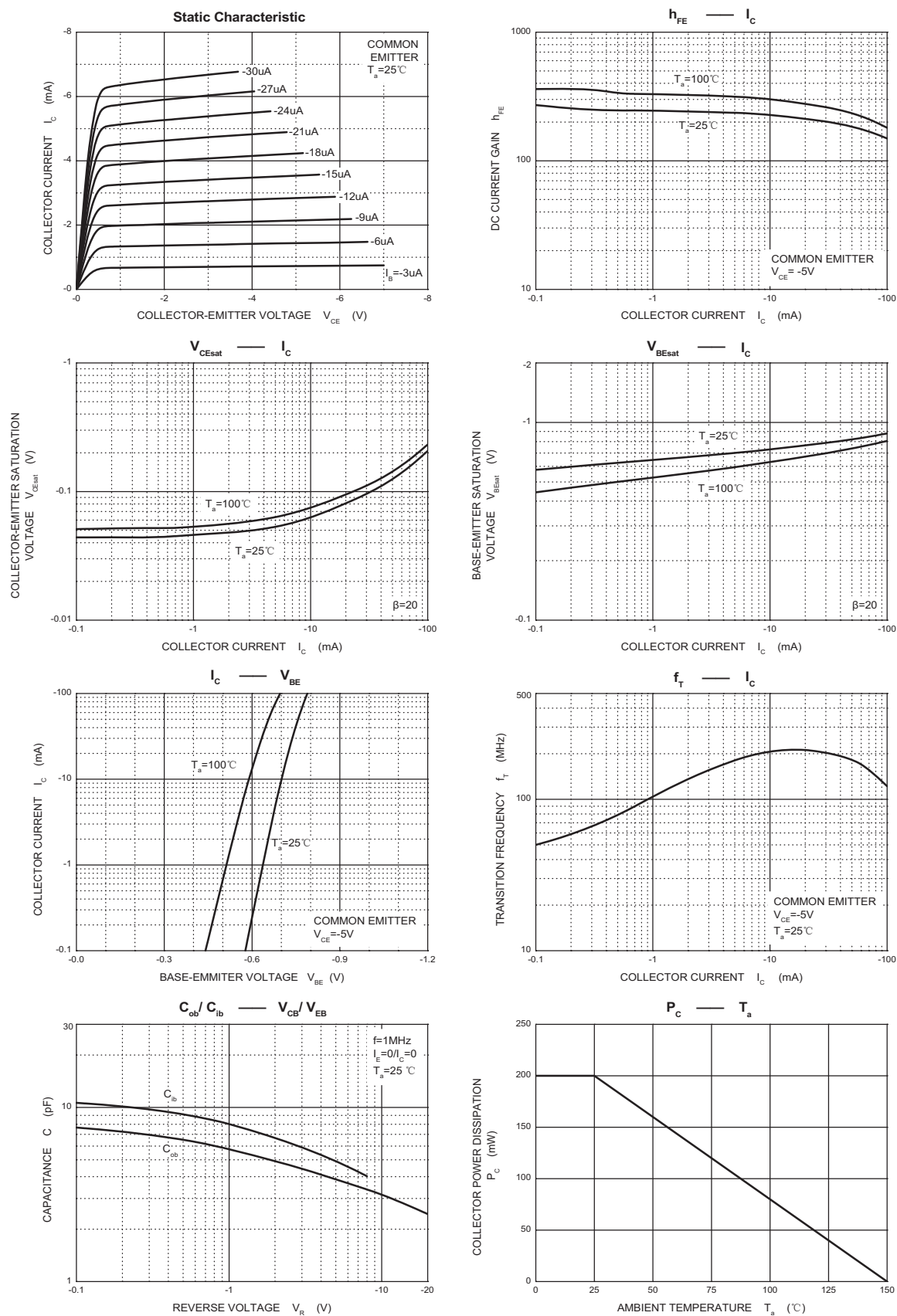
ELECTRICAL CHARACTERISTICS PNP 540I

(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

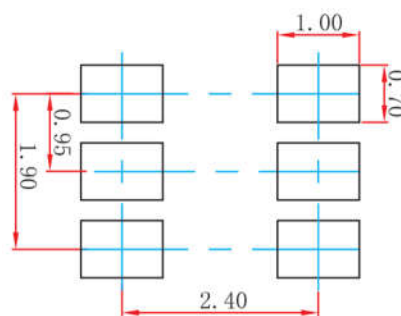
Package	Packing Description	Packing Quantity
SOT23-6L	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

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



Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.