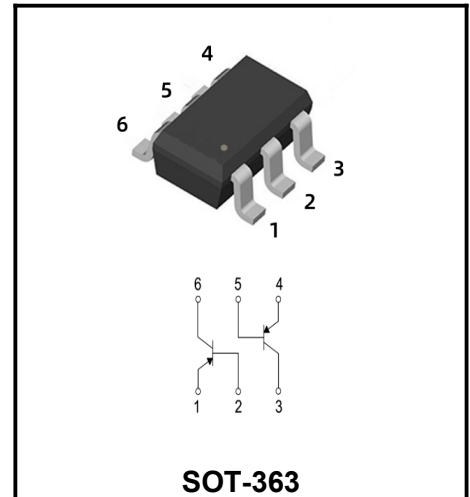


Plastic-Encapsulate Transistors

DUAL TRANSISTOR (PNP+PNP)

FEATURES

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



Marking Code	
BC856BDW	5Ft

MAXIMUM RATINGS (Ta =25°C unless otherwise noted)

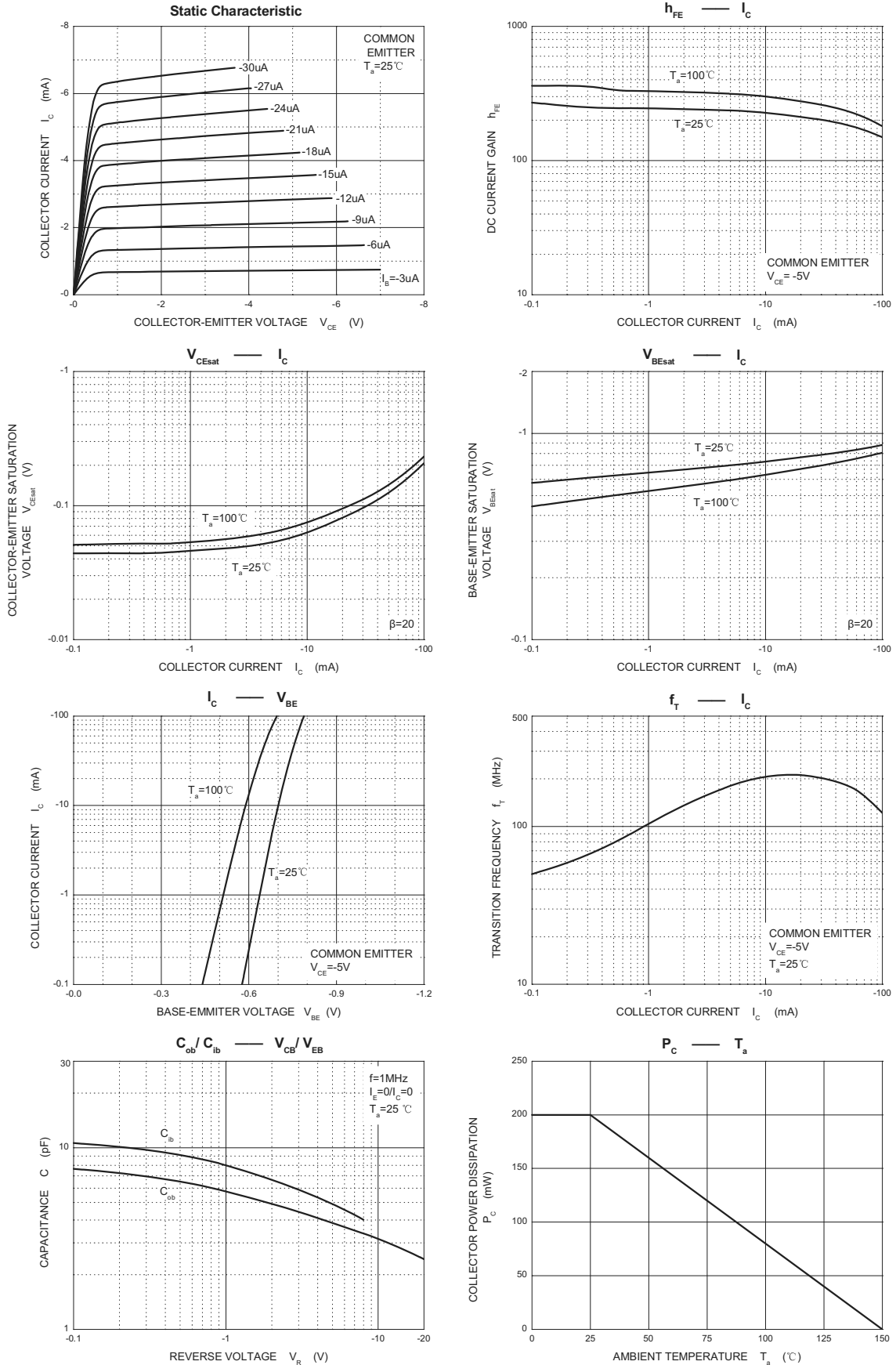
Parameter	Symbol	Value	Units
Collector- Base Voltage	V_{CB0}	-80	V
Collector-Emitter Voltage	V_{CEO}	-65	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_c	-0.1	A
Collector Power Dissipation	P_c	0.2	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55-150	°C

ELECTRICAL CHARACTERISTICS PNP 5401 (Ta=25°C unless otherwise specified)

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	$I_c=-10\mu A, I_E=0$	$V_{(BR)CBO}$	-80			V
Collector-emitter breakdown voltage	$I_c=-10mA, I_B=0$	$V_{(BR)CEO}$	-65			V
Emitter-base breakdown voltage	$I_E=-10\mu A, I_c=0$	$V_{(BR)EBO}$	-5			V
Collector cut-off current	$V_{CB}=-30V, I_E=0$	I_{CBO}			-15	nA
Emitter cut-off current	$V_{EB}=-5V, I_c=0$	I_{EBO}			-100	nA
DC current gain	$V_{CE}=-5V, I_c=-2mA$	h_{FE}	110		600	
Collector-emitter saturation voltage	$I_c=-10mA, I_B=-0.5mA$	$V_{CE(sat)}$			-0.1	V
	$I_c=-100mA, I_B=-5mA$ *				-0.3	V
Base-emitter saturation voltage	$I_c=-10mA, I_B=-0.5mA$	$V_{BE(sat)}$		0.7		V
Output Capacitance	$V_{CB}=-10V, f=1MHz, I_E=0$	C_{obo}			2.5	pF
Current Gain-Bandwidth Product	$V_{CE}=-5V, I_c=-10mA, f=100MHz$	f_T	100			MHz

*pulse test: $PW \leq 350\mu S, \delta \leq 2\%$.

Ratings and Characteristic Curves



Ordering information

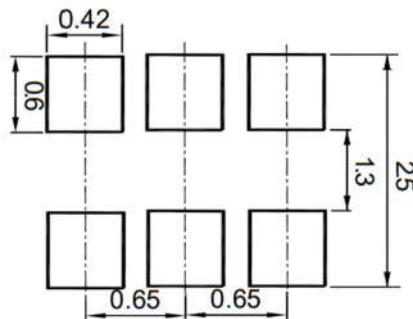
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOT-363

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

The recommended mounting pad size



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