

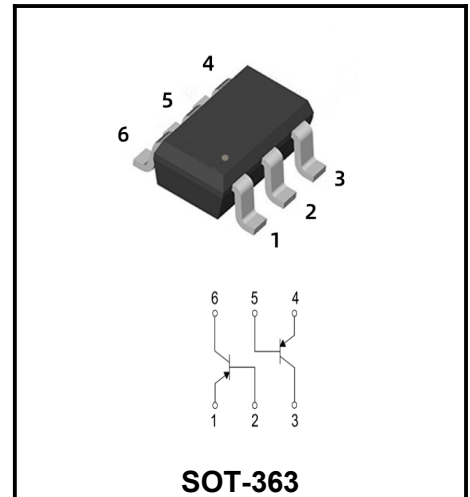
Plastic-Encapsulate Transistors

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	
BC857BDW	3C



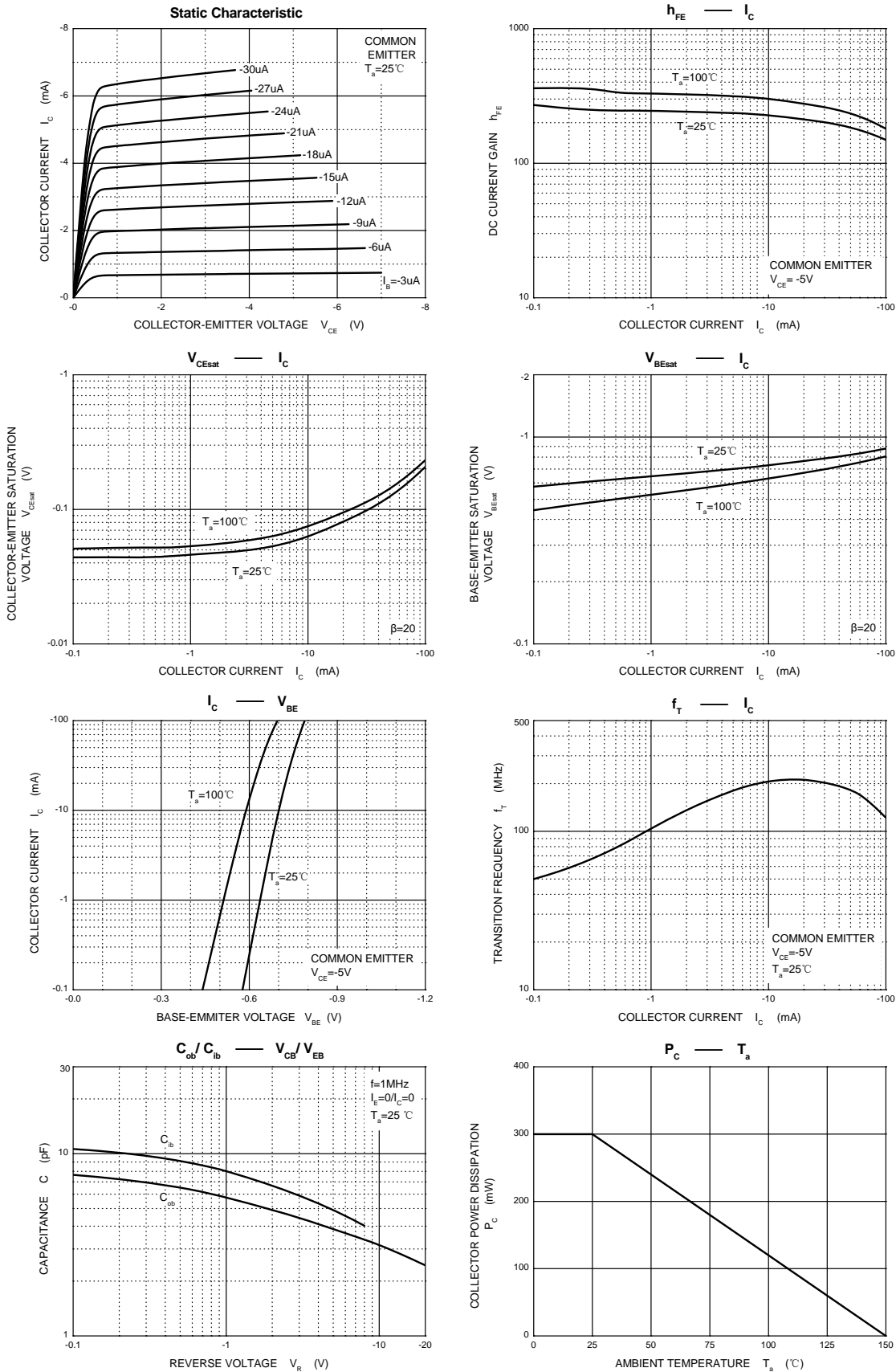
MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CB0}	Collector- Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.2	A
P _C	Collector Power Dissipation	0.3	W
R _{θJA}	Thermal Resistance from Junction to Ambient	417	°C/W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V, I _E =0			-15	nA
DC current gain	h _{FE}	V _{CE} =-5V, I _C =-2mA	125		630	
Collector-emitter saturation voltage	V _{CE(sat)(1)}	I _C =-10mA, I _B =-0.5mA			-0.3	V
	V _{CE(sat)(2)}	I _C =-100mA, I _B =-5mA			-0.65	V
Base-emitter voltage	V _{BE(1)}	V _{CE} =-5V, I _C =-2mA	-0.6		-0.75	V
	V _{BE(2)}	V _{CE} =-5V, I _C =-10mA			-0.82	V
Transition frequency	f _T	V _{CE} =-5V, I _C =-10mA, f=100MHz		200		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		3.5		pF
Noise figure	NF	V _{CE} =-5V, I _C =-0.2mA, f=1kHz, R _s =2KΩ, BW=200Hz		2.5		dB

Typical Characteristics



Ordering information

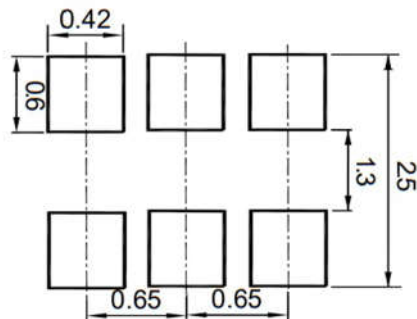
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

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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