



# THE DATASHEET OF BC857BW



## Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

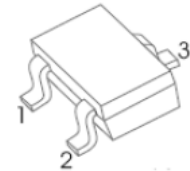
### FEATURES

- Ideally suited for automatic insertion
- For Switching and AF Amplifier Applications

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
<b>V<sub>CBO</sub></b>	Collector-Base Voltage		
	BC856W	-80	V
	BC857W	-50	
	BC858W	-30	
<b>V<sub>CEO</sub></b>	Collector-Emitter Voltage		
	BC856W	-65	V
	BC857W	-45	
	BC858W	-30	
<b>V<sub>EBO</sub></b>	Emitter-Base Voltage	-5	V
<b>I<sub>c</sub></b>	Collector Current –Continuous	-0.1	A
<b>P<sub>C*</sub></b>	Collector Power Dissipation	150	mW
<b>T<sub>J</sub></b>	Junction Temperature	150	°C
<b>T<sub>stg</sub></b>	Storage Temperature	-65-150	°C

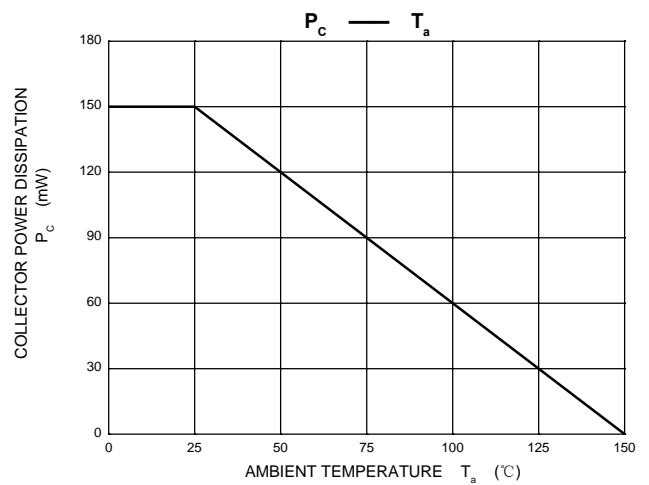
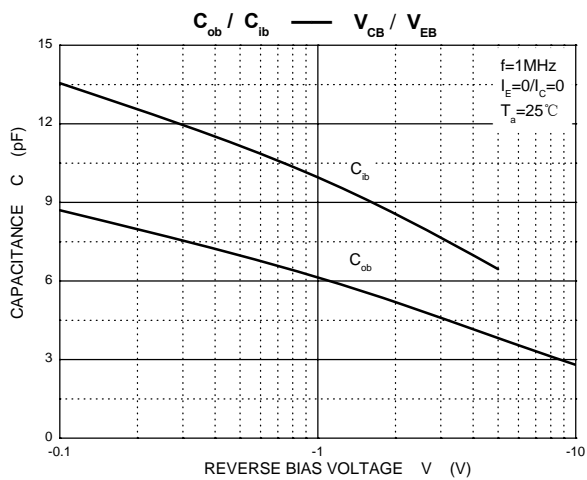
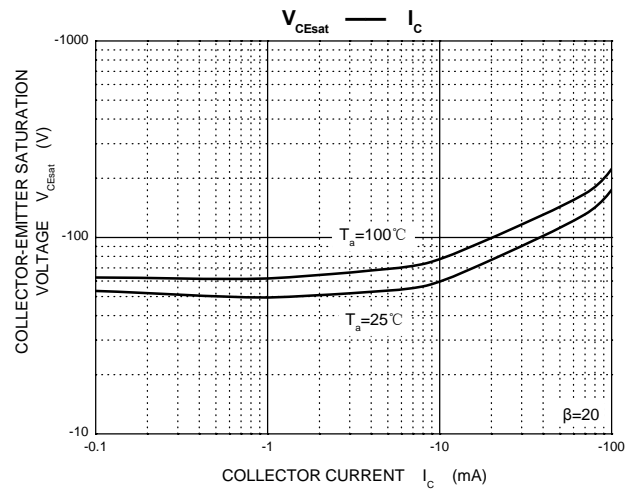
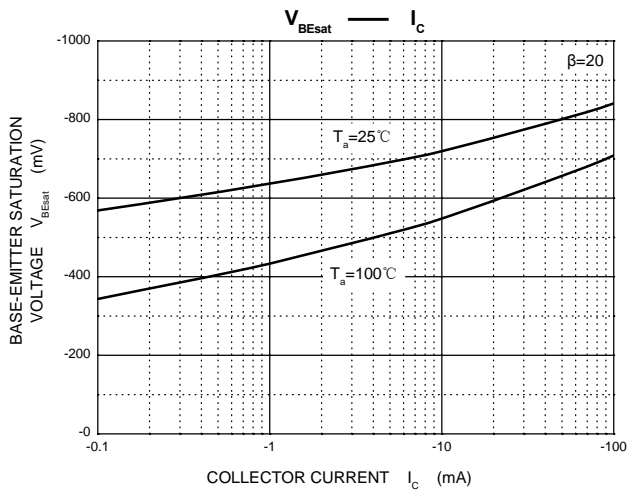
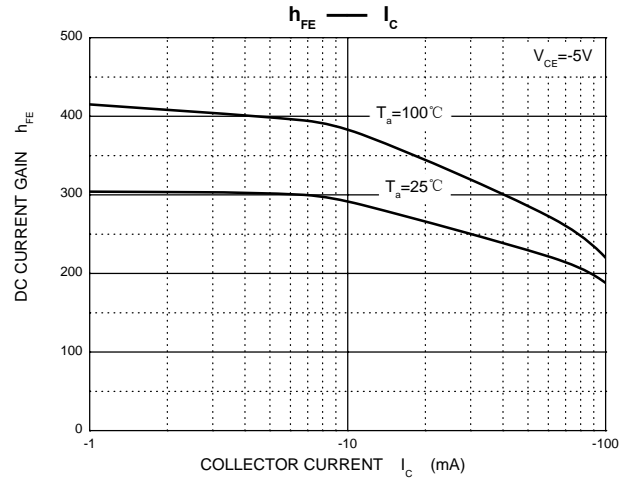
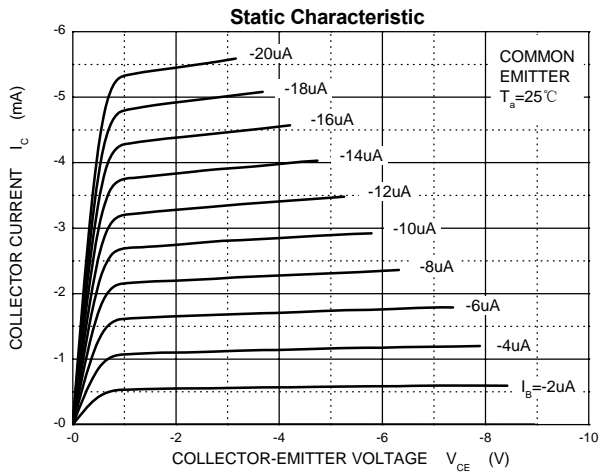
### SOT-323



1. BASE
2. EMITTER
3. COLLECTOR

**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	BC856W BC857W BC858W	V <sub>CBO</sub>	I <sub>C</sub> = -10μA, I <sub>E</sub> =0	-80 -50 -30	V
Collector-emitter breakdown voltage	BC856W BC857W BC858W	V <sub>CEO</sub>	I <sub>C</sub> = -10mA, I <sub>B</sub> =0	-65 -45 -30	V
Emitter-base breakdown voltage		V <sub>EBO</sub>	I <sub>E</sub> = -1μA, I <sub>C</sub> =0	-5	V
Collector cut-off current		I <sub>CBO</sub>	V <sub>CB</sub> = -30 V , I <sub>E</sub> =0		-15 nA
DC current gain	BC856AW, 857AW,858AW BC856BW, 857BW,858BW BC857CW,BC858CW	h <sub>FE</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -2mA	125 220 420	250 475 800
Collector-emitter saturation voltage		V <sub>CE(sat)</sub>	I <sub>C</sub> =-100mA, I <sub>B</sub> = -5mA		-0.65 V
Base-emitter saturation voltage		V <sub>BE(sat)</sub>	I <sub>C</sub> = -100mA, I <sub>B</sub> = -5mA		-1.1 V
Transition frequency		f <sub>T</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -10mA f=100MHz	100	MHz
Collector capacitance		C <sub>ob</sub>	V <sub>CB</sub> =-10V, f=1MHz		4.5 pF



**PACKAGE OUTLINE**

Plastic surface mounted package; 3 leads

SOT-323

## Looking for pricing, stock, or lifecycle information?

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