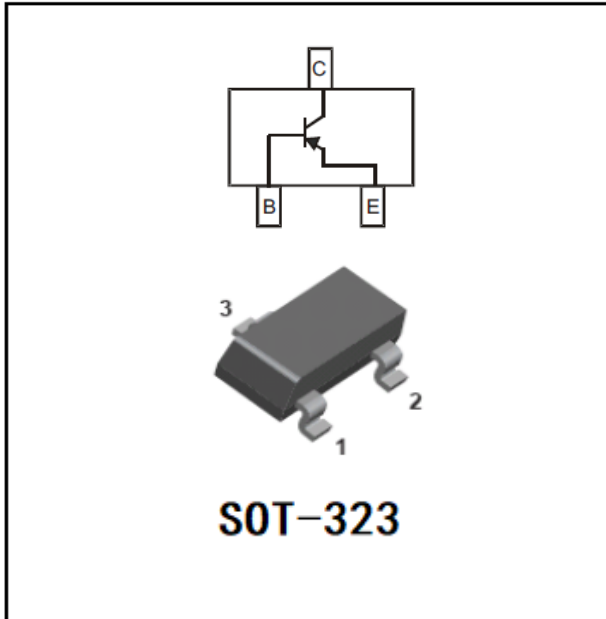


## PNP Transistor



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

### Mechanical Data

- **Package:** SOT-323  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:**

BC856AW	3A
BC856BW	3B
BC857AW	3E
BC857BW	3F
BC857CW	3G
BC858AW	3J
BC858BW	3K
BC858CW	3L

### ■ Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
VCBO	Collector-Base Voltage BC856AW、BC856BW BC857AW、BC857BW、BC857CW BC858AW、BC858BW、BC858CW	-80	V
		-50	
		-30	
VCEO	Collector-Emitter Voltage BC856AW、BC856BW BC857AW、BC857BW、BC857CW BC858AW、BC858BW、BC858CW	-65	V
		-45	
		-30	
VEBO	Emitter-Base Voltage	-6	V
IC	Collector Current	-0.1	A
PC	Collector Power Dissipation	200	mW
RθJA	Thermal Resistance From Junction To Ambient	625	°C/W
Tj	Junction Temperature	150	°C
Tstg	Storage Temperature	-55~+150	°C



# BC856AW THRU BC858CW

RoHS  
COMPLIANT

## ■ Electrical Characteristics (Ta=25°C unless otherwise noted)

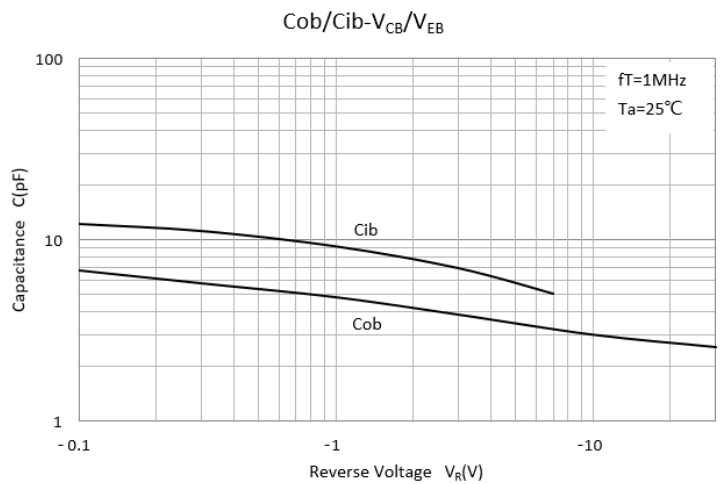
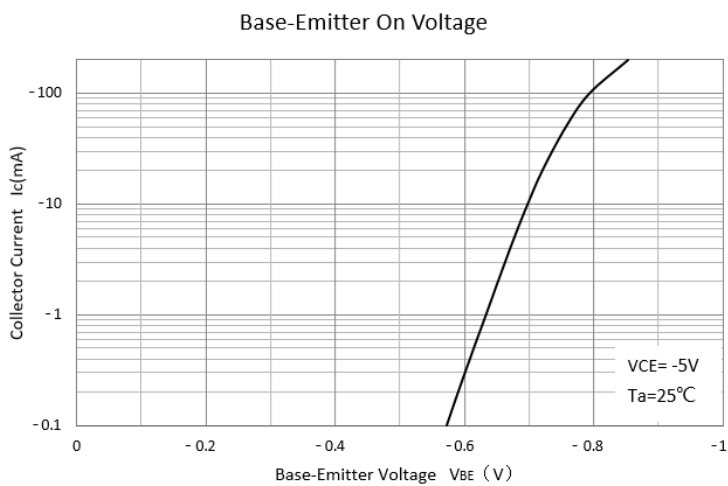
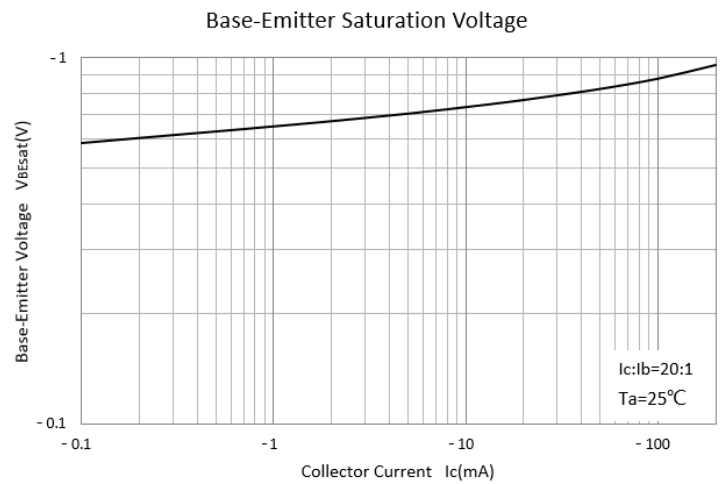
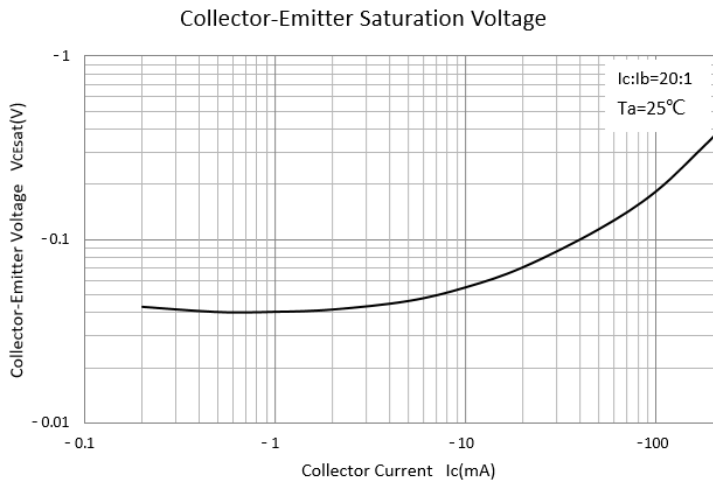
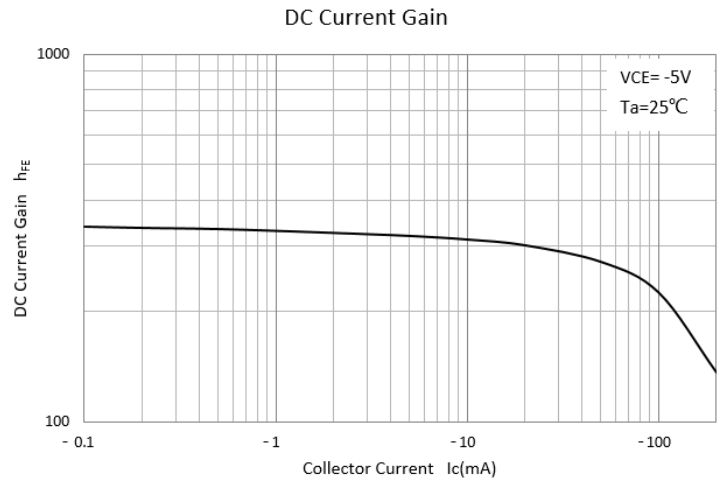
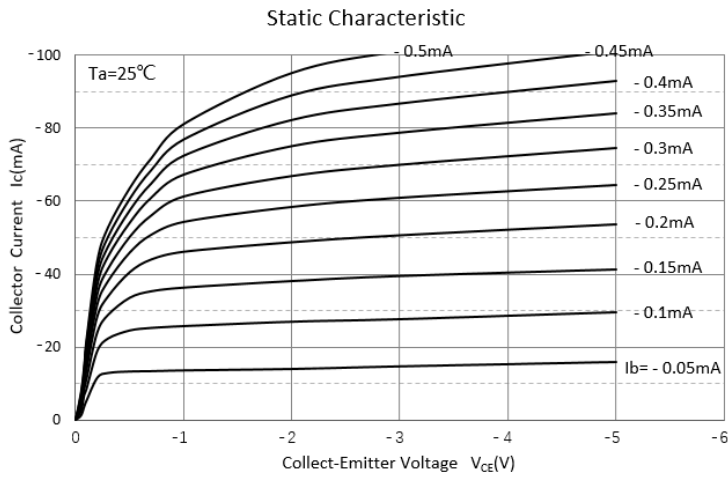
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage BC856 BC857 BC858	V <sub>CBO</sub>	IC= -10μA, IE=0	-80 -50 -30		V
Collector-emitter breakdown voltage BC856 BC857 BC858	V <sub>CEO</sub>	IC= -10mA, IB=0	-65 -45 -30		V
Emitter-base breakdown voltage	V <sub>EBO</sub>	IE= -1μA, IC=0	-5		V
Collector-base cut-off current	I <sub>CBO</sub>	VCB=-30 V ,IE=0		-0.1	μ A
Emitter-base cut-off current	I <sub>EBO</sub>	VEB=-5 V , IC=0		-0.1	μ A
DC current gain BC856AW,BC857AW,BC858AW BC856BW,BC857BW,BC858BW BC857CW,BC858CW	h <sub>FE</sub>	VCE= -5V, IC= -2mA	125 220 420	250 475 800	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	IC=-100mA, IB= -5mA		-0.65	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	IC=-100mA, IB= -5mA		-1.1	V
Transition frequency	f <sub>t</sub>	VCE= -5 V, IC= -10mA f=100MHz	100		MHz
Collector-base output capacitance	C <sub>ob</sub>	VCB=-10V,f=1MHz		4.5	pF

## ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC856AW THRU BC858CW	F2	Approximate 0.005	3000	30000	120000	7" reel

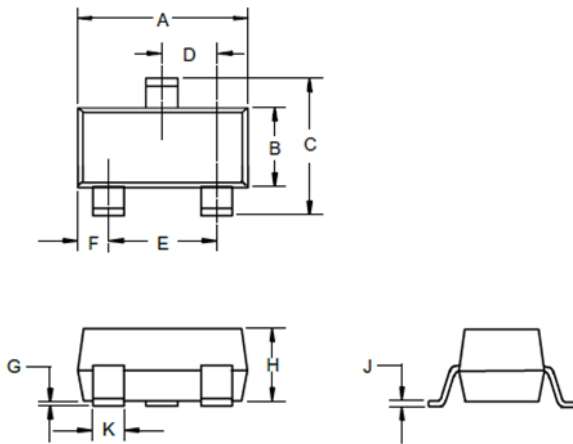


## ■ Characteristics(Typical)



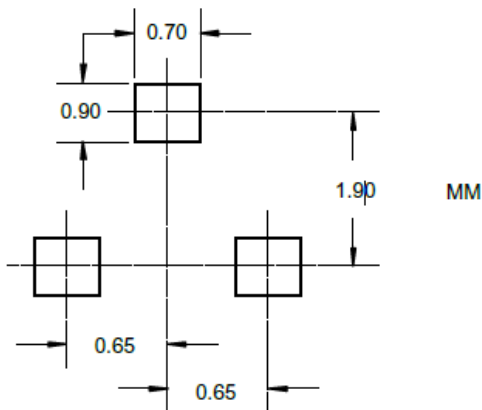


## ■ SOT-323 Package Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

## ■ SOT-323 Soldering Footprint





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