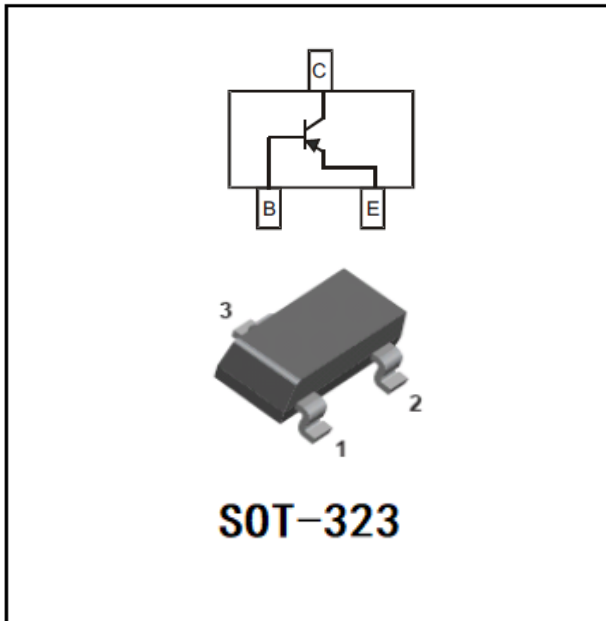


PNP Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- 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
BVCBO	Collector-Base Voltage BC856AW、BC856BW BC857AW、BC857BW、BC857CW BC858AW、BC858BW、BC858CW	-80 -50 -30	V
BVCEO	Collector-Emitter Voltage BC856AW、BC856BW BC857AW、BC857BW、BC857CW BC858AW、BC858BW、BC858CW	-65 -45 -30	V
BVEBO	Emitter-Base Voltage	-6	V
IC	Collector Current –Continuous	-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

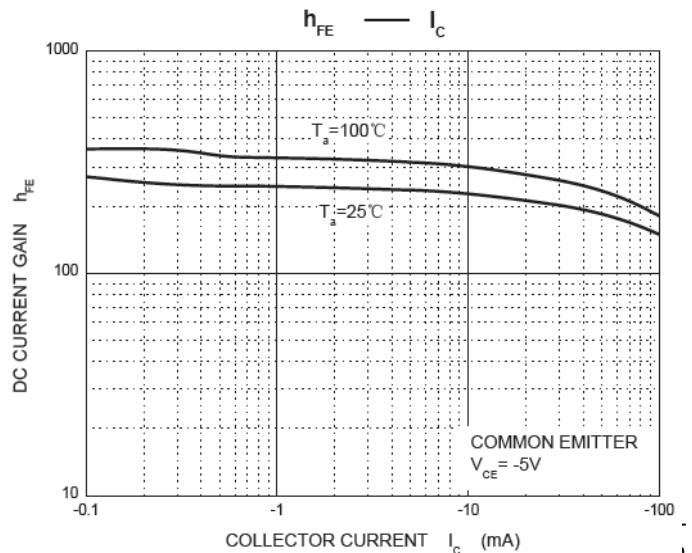
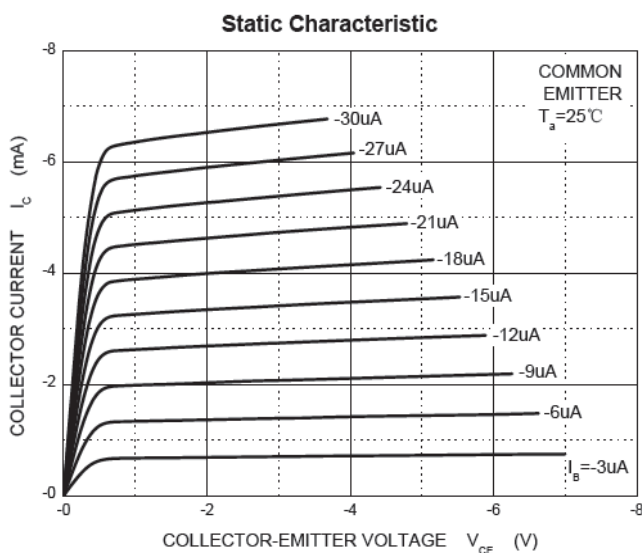
■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage BC856 BC857 BC858	BVCBO	IC= -10μA, IE=0	-80 -50 -30		V
Collector-emitter breakdown voltage BC856 BC857 BC858	BVCEO	IC= -10mA, IB=0	-65 -45 -30		V
Emitter-base breakdown voltage	BVEBO	IE= -1μA, IC=0	-5		V
Collector cut-off current	ICBO	VCB=-30 V ,IE=0		-0.1	μ A
Emitter cut-off current	IEBO	VEB=-5 V , IC=0		-0.1	μ A
DC current gain BC856AW,BC857AW,BC858AW BC856BW,BC857BW,BC858BW BC857CW,BC858CW	hFE	VCE= -5V, IC= -2mA	125 220 420	250 475 800	
Collector-emitter saturation voltage	VCE(sat)	IC=-100mA, IB= -5mA		-0.65	V
Base-emitter saturation voltage	VBE(sat)	IC=-100mA, IB= -5mA		-1.1	V
Transition frequency	fT	VCE= -5 V, IC= -10mA f=100MHz	100		MHz
Collector output capacitance	Cob	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

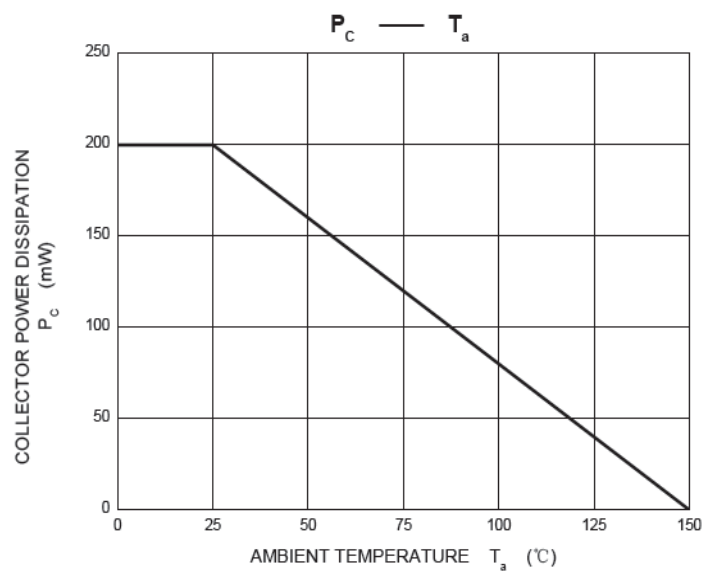
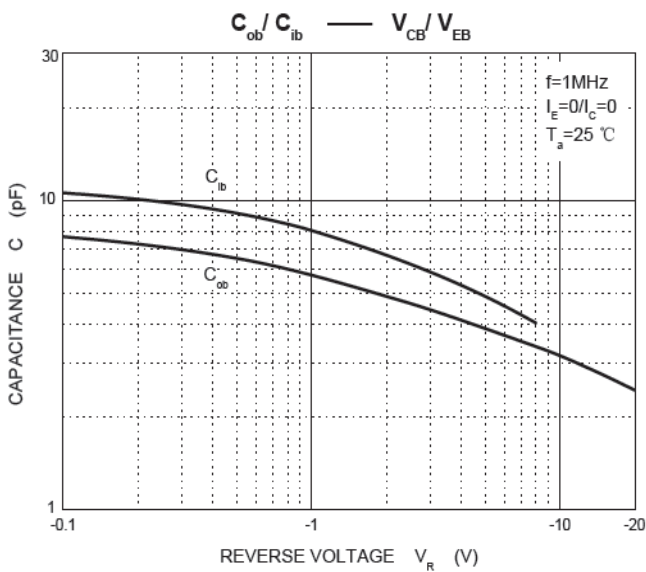
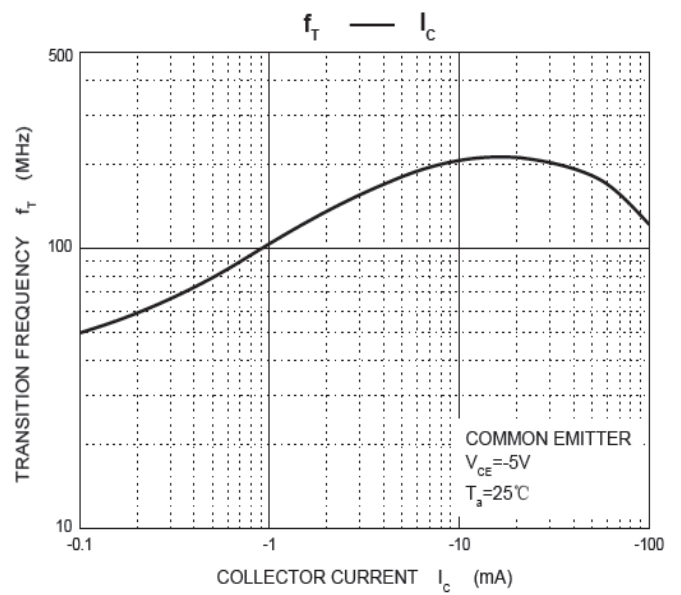
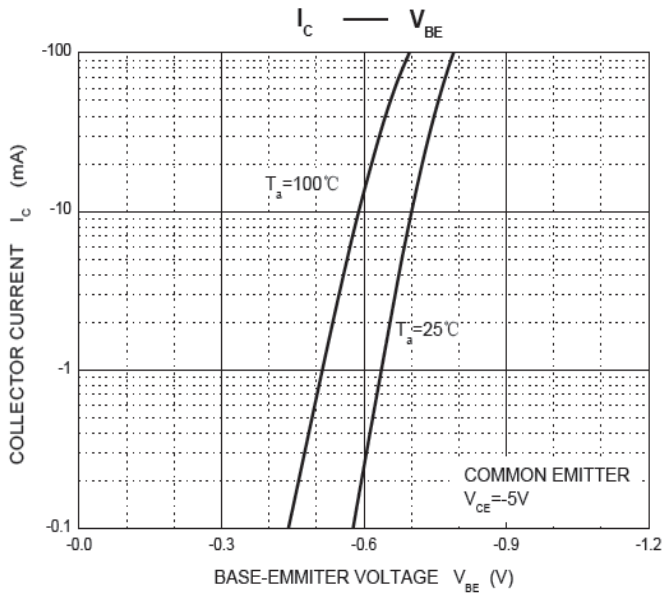
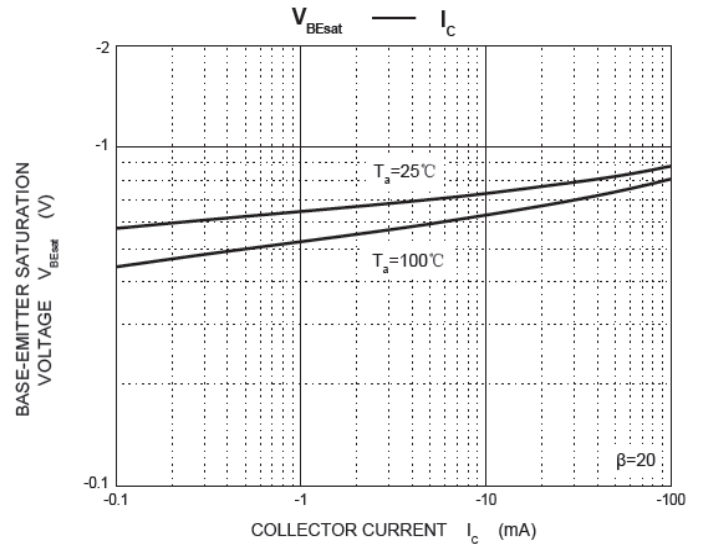
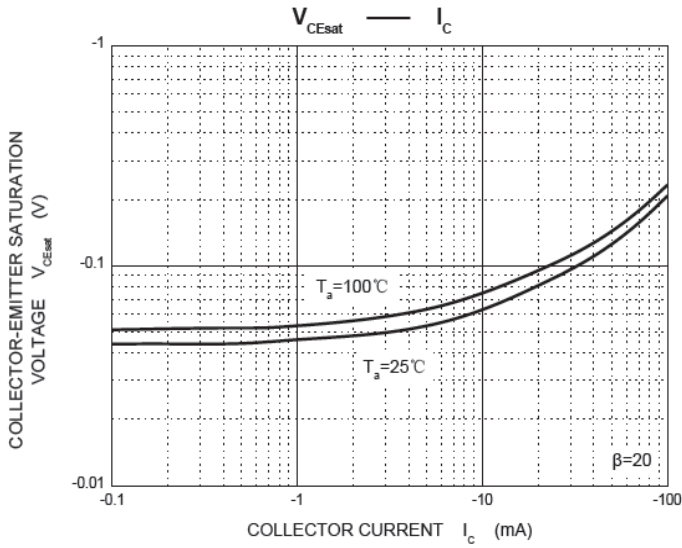
■ Characteristics(Typical)





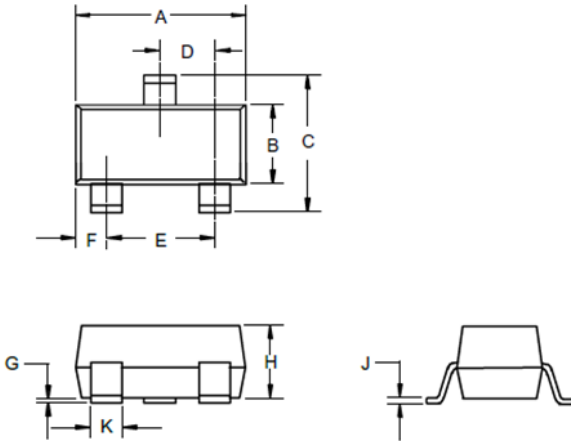
BC856AW THRU BC858CW

RoHS
COMPLIANT



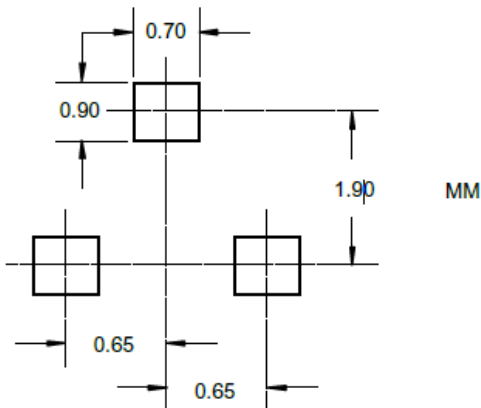


■ SOT-323 Package Outline Dimensions



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 Suggested Pad Layout





Disclaimer

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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), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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