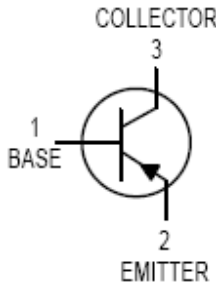
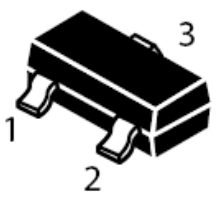


PNP General Purpose Transistor		
<p>FEATURES</p> <ul style="list-style-type: none"> • Ideally suited for automatic insertion • For Switching and AF Amplifier Applications <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: SOT-323 Plastic • Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl) • Lead Free in RoHS 2002/95/EC Compliant 		

Maximum Ratings @ T_A = 25°C

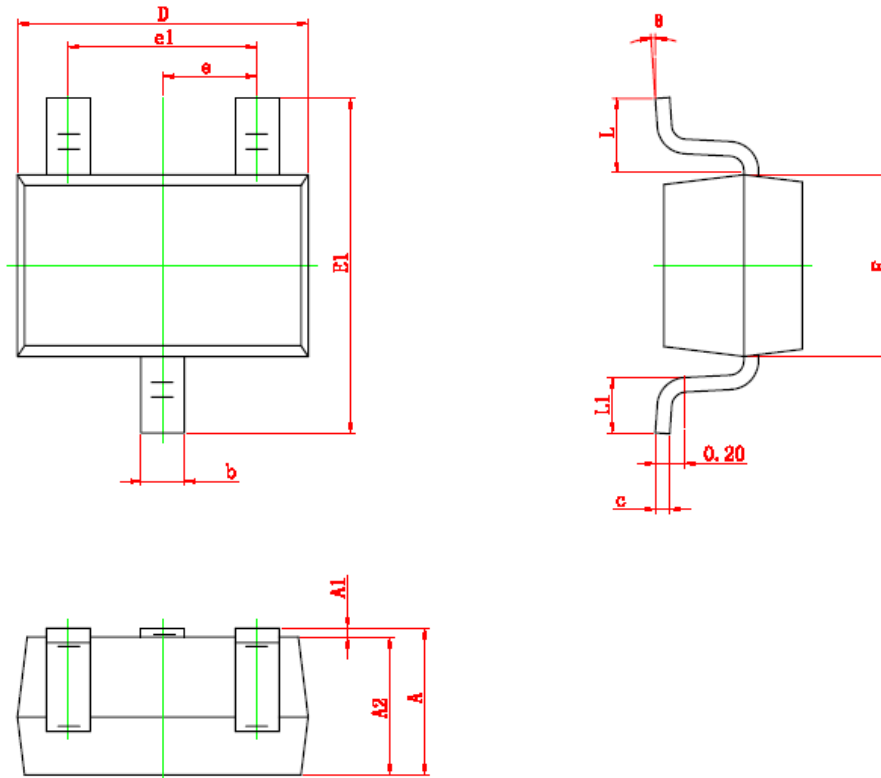
Characteristic	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-65	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _C	-100	mA
Collector Power Dissipation	P _C	150	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Collector-base breakdown voltage	I _C =-10μA, I _E =0	V _{CBO}	-80			V
Collector-emitter breakdown voltage	I _C =-10mA, I _B =0	V _{CEO}	-65			V
Emitter-base breakdown voltage	I _E =-1μA, I _C =0	V _{EBO}	-5			V
Collector-base cut-off current	V _{CB} =-30V, I _E =0	I _{CBO}			-15	nA
DC current gain	V _{CE} =-5V, I _C =-2mA	h _{FE}	125		250	
		AW BW	220		475	
Collector-emitter saturation voltage	I _C =-100mA, I _B =-5mA	V _{CE(sat)}			-0.65	V
Base-emitter saturation voltage	I _C =-100mA, I _B =-5mA	V _{BE(sat)}			-1.1	V
Transition frequency	V _{CE} =-5V, I _C =-10mA, f=100MHz	f _T	100			MHz
Collector output capacitance	V _{CB} =-10V, f=1MHz	C _{ob}			4.5	pF

REV. 2, Jun-2012, KSPR05

SOT-323 Outline Dimension



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

Device Marking :

Device P/N	Classification of h_{FE}	Marking code
BC856AW	125-250	3A
BC856BW	220-475	3B

Electrical characteristic curves

Fig.1 DC Current Gain vs. Collector Current_BC856AW

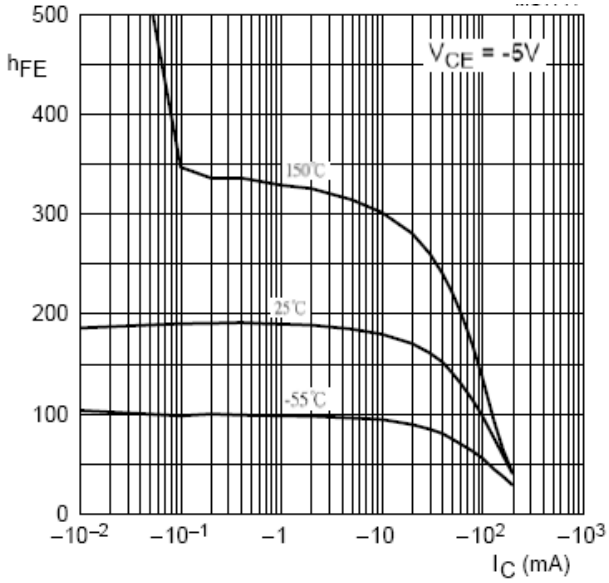


Fig.2 Grounded Emitter Propogation_BC856AW

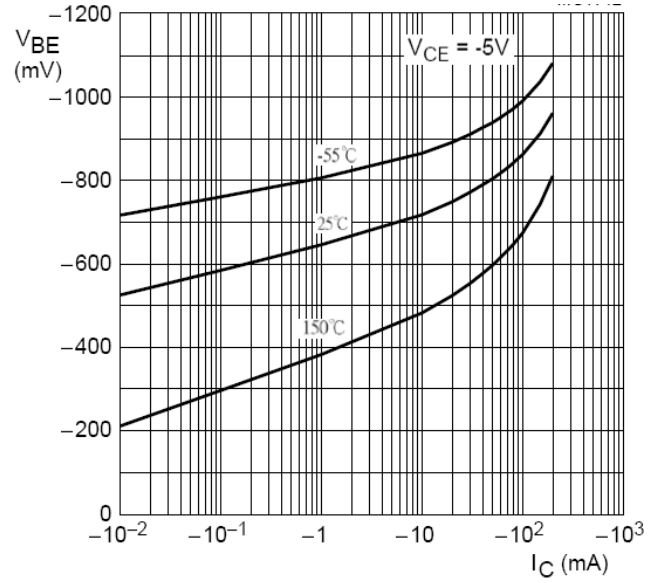


Fig.3 Collector Emitter Saturation Voltage vs. Collector Current_BC856AW

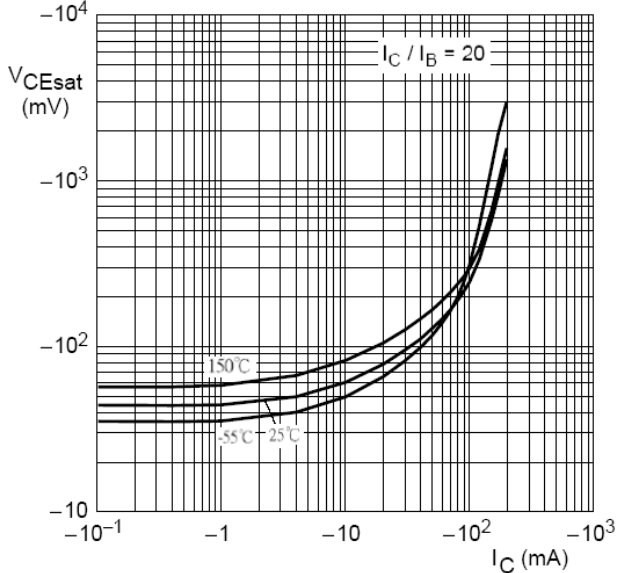


Fig.4 Base Emitter Saturation Voltage vs. Collector Current_BC856AW

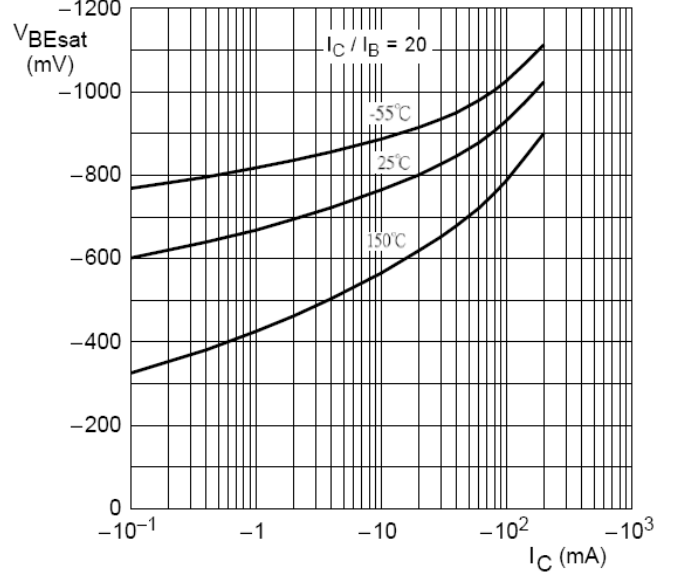


Fig.5 DC Current Gain vs. Collector Current_BC856BW

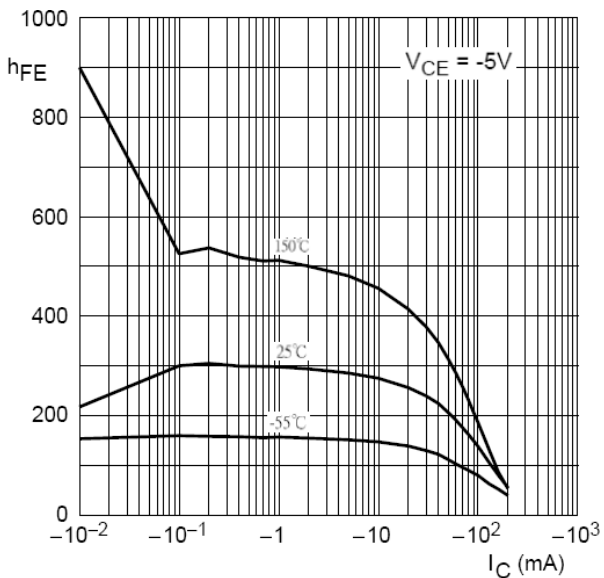


Fig.6 Grounded Emitter Propogation_BC856BW

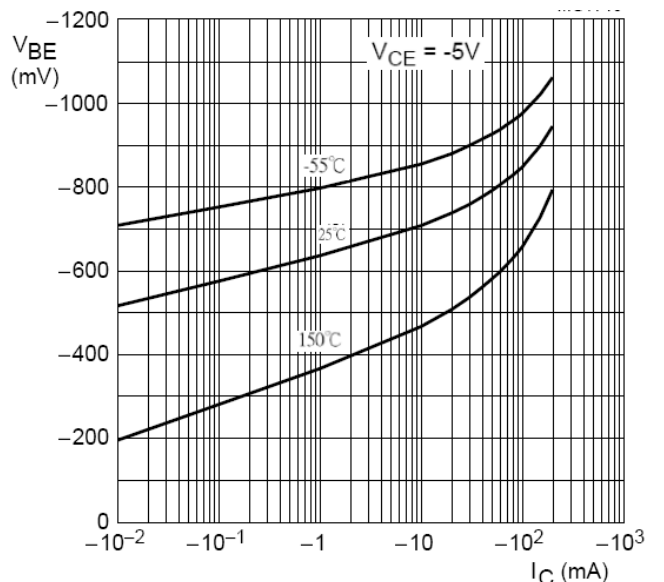


Fig.7 Collector Emitter Saturation Voltage vs. Collector Current_BC856BW

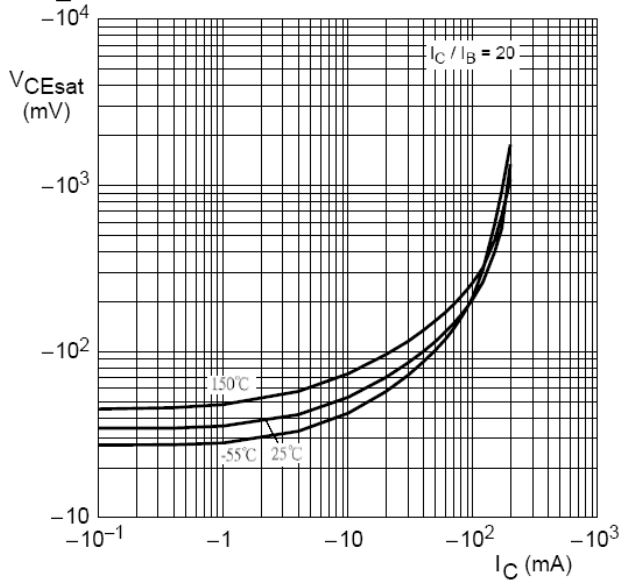
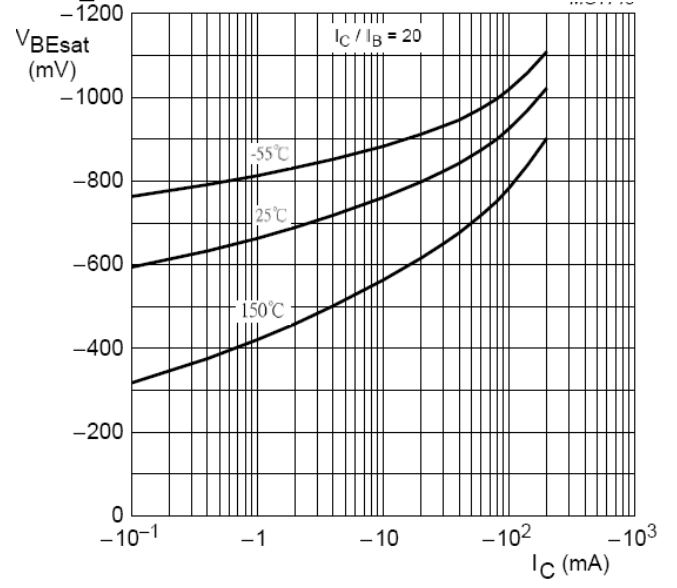


Fig.8 Base Emitter Saturation Voltage vs. Collector Current_BC856BW



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