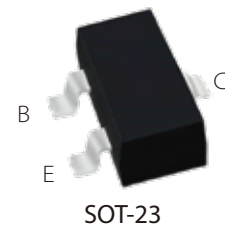


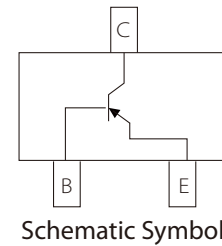
FEATURES

- | Complementary to BC846/BC847/BC848
- | Power Dissipation of 200mW
- | Ideally suited for automatic insertion
- | For switching and AF amplifier applications



MECHANICAL DATA

- | Small Outline Plastic Package
- | Epoxy UL: 94V-0
- | Mounting position: Any



APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

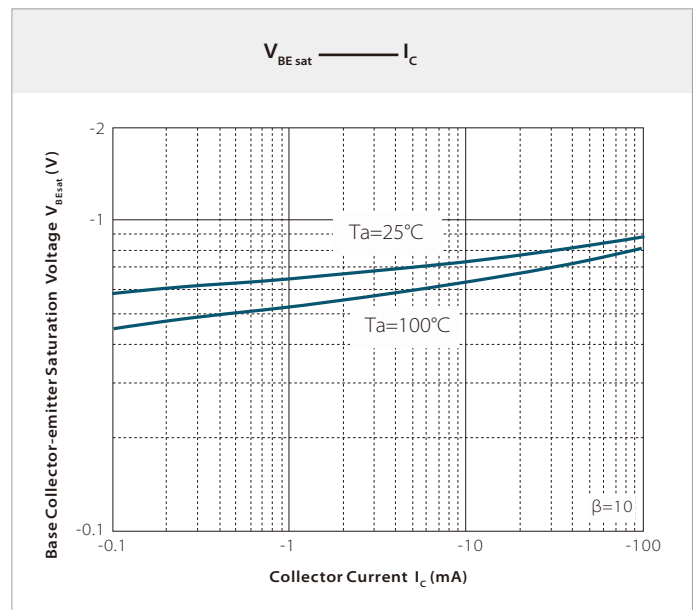
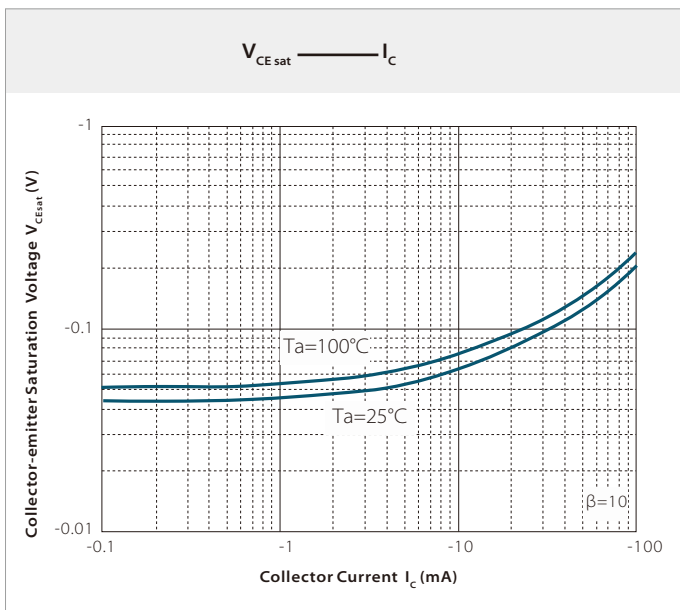
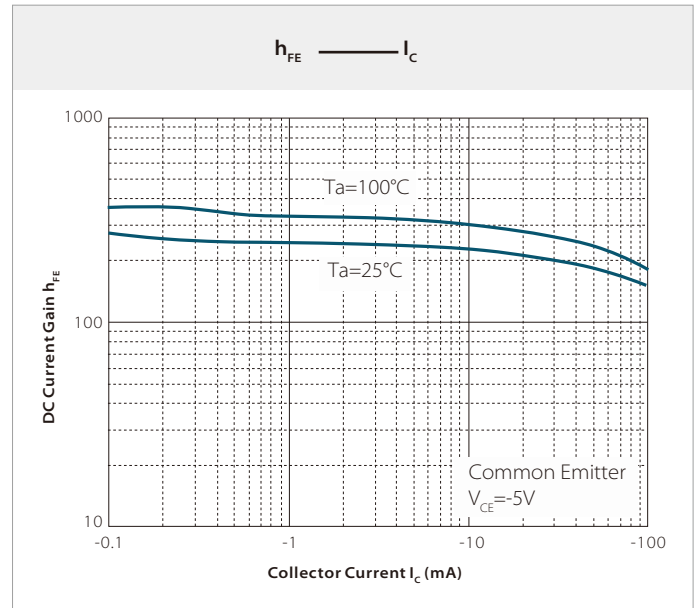
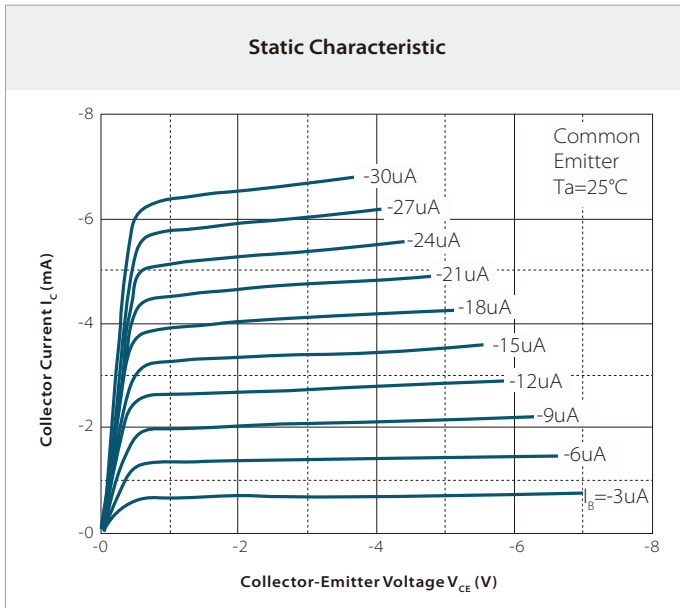
MAXIMUM RATINGS (T_A = 25°C)

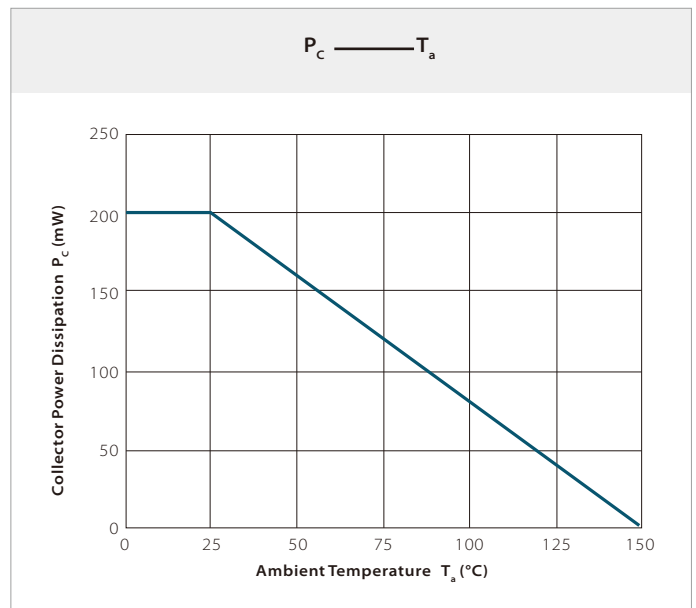
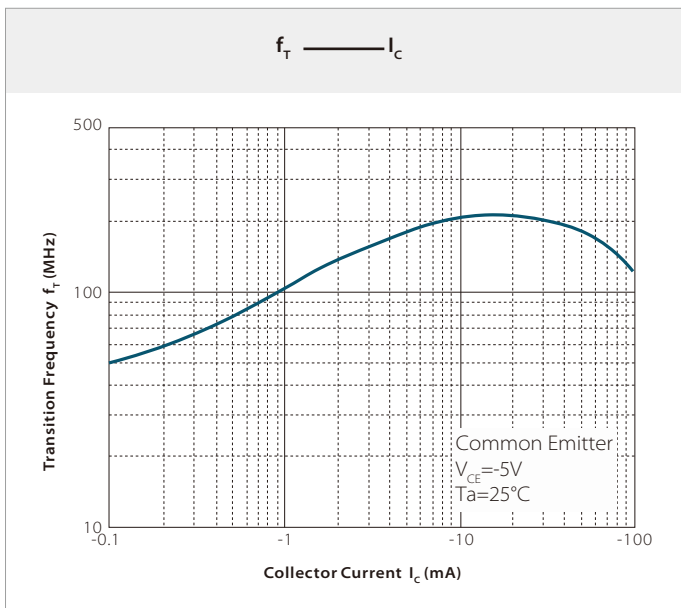
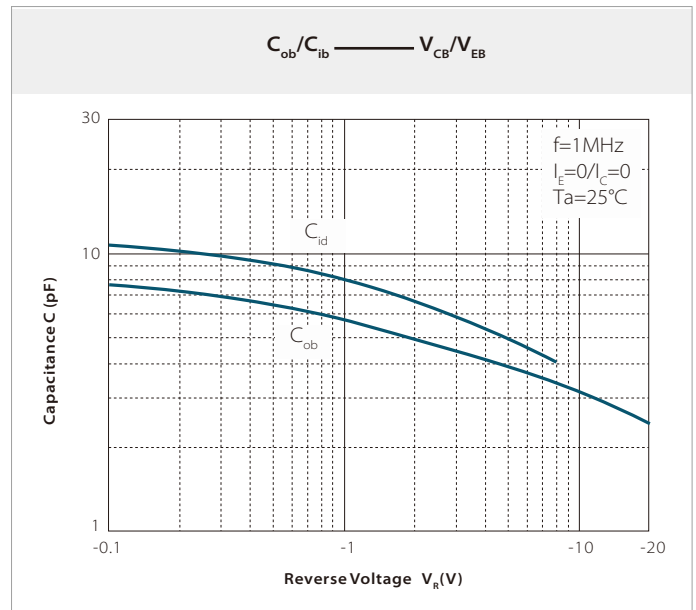
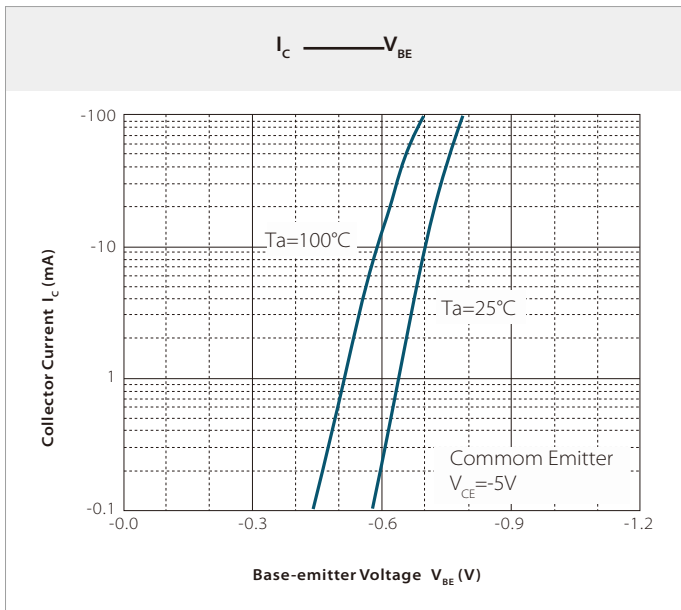
Parameter	Symbol	BC856		BC857			BC858			Unit	
		BC856A	BC856B	BC857A	BC857B	BC857C	BC858A	BC858B	BC858C		
		3A	3B	3E	3F	3G	3J	3K	3L		
Collector-Base Voltage	V _{CBO}	-80		-50			-30			V	
Collector-Emitter Voltage	V _{CEO}	-65		-45			-30			V	
Emitter-Base Voltage	V _{EBO}	-6									V
Collector Current-Continuous	I _C	-100									mA
Collector Power Dissipation	P _C	200									mW
Thermal resistance From junction to ambient	R _{θJA}	625									°C/W
Junction Temperature	T _J	150									°C
Storage Temperature	T _{STG}	-55~+150									°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

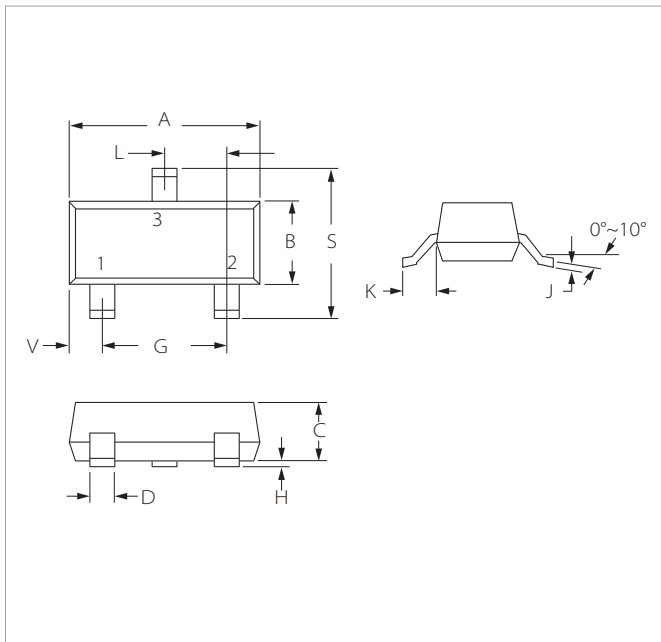
Parameter	Symbol	Test Conditions		Min.	Typ.	Max.	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	BC856	I _C =-10μA, I _E =0	-80			V
		BC857		-50			
		BC858		-30			
Collector-emitter breakdown voltage	V _{(BR)CEO}	BC856	I _C =-10mA, I _B =0	-65			V
		BC857		-45			
		BC858		-30			
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0		-6			V
Collector cut-off current	I _{CBO}	BC856	V _{CB} =-70V, I _E =0			-100	nA
		BC857	V _{CB} =-45V, I _E =0				
		BC858	V _{CB} =-25V, I _E =0				
Collector cut-off current	I _{CEO}	BC856	V _{CB} =-60V, I _B =0			-100	nA
		BC857	V _{CB} =-40V, I _B =0				
		BC858	V _{CB} =-25V, I _B =0				
DC current gain	hFE	BC856A; BC857A;BC858A	V _{CE} =-5V, I _C =-2mA	125		250	
		BC856B; BC857B;BC858B		220		475	
		BC857C; BC858C		420		800	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-5mA				-0.50	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-100mA, I _B =-5mA				-1.10	V
Transition frequency	f _T	V _{CE} =-5V, I _C =-10mA, f=100MHz		100			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, f=100MHz				4.5	pF
Emitter cut-off current	I _{EBO}	V _{CE} =-5V, I _C =0V				-100	nA

TYPICAL CHARACTERISTICS



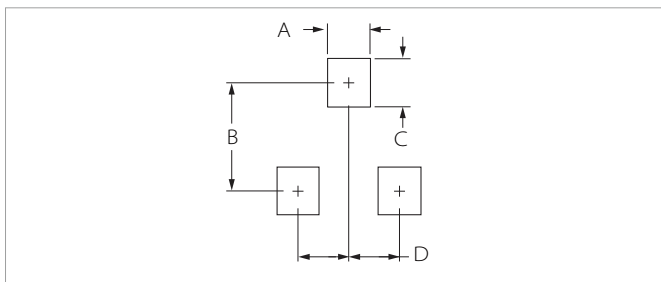


SOT-23 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.80	3.04	0.110	0.120
B	1.20	1.40	0.047	0.055
C	0.89	1.11	0.035	0.044
D	0.37	0.50	0.015	0.020
G	1.78	2.04	0.070	0.081
H	0.01	0.100	0.001	0.004
J	0.085	0.180	0.003	0.007
K	0.35	0.69	0.014	0.029
L	0.89	1.02	0.035	0.040
S	2.10	2.64	0.083	0.104
V	0.45	0.60	0.018	0.024

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.71	0.97	0.028	0.038
B	1.88	2.13	0.074	0.084
C	0.71	0.97	0.028	0.038
D	0.81	1.07	0.032	0.042

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
BC856-BC858	SOT-23	3000PCS	7"

