

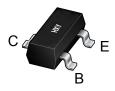
FEATURES

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

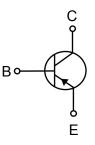
Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BC856/BC857 /BC858	SOT-23	3 *	3000

* BC856A= A; BC856B= B; BC856C= C; BC857A= E; BC857B= F; BC857C= G; BC858A= J; BC858B= K; BC858C= L;







MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Symbol	Parameter		Limit	Unit
	Collector-Base Voltage	BC856	-80	
V _{CBO}		BC857	-50	V
		BC858	-30	
	Collector-Emitter Voltage	BC856	-65	
V _{CEO}		BC857	-45	v
		BC858	-30	
V _{EBO}	Emitter-Base Voltage		-5	V
Ι _c	Collector Current		-100	mA
P _c	Collector Power Dissipation		200	mW
R _{oja}	Thermal Resistance From Junction To Ambient		625	°C/W
Tj	Junction Temperature		150	ĉ
T _{stg}	Storage Temperature		-55~+150	ĉ

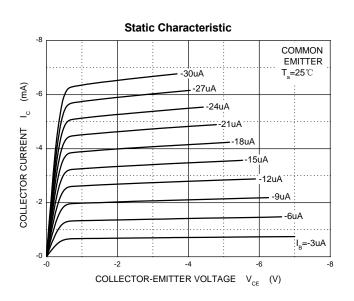


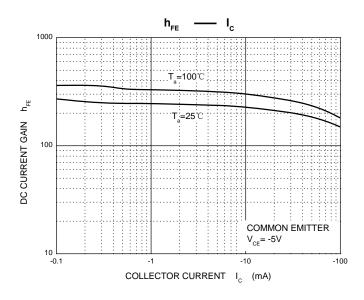
BC856/BC857/BC858 PNP Plastic-Encapsulate Transistors

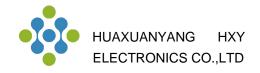
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Symbol	Parameter	Part	Test conditions	Min	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	BC856		-80		
		BC857	I _C =-10μΑ, I _E =0	-50		V
		BC858		-30		
	Collector-emitter	BC856		-65		
$V_{(BR)CEO}$	breakdown voltage	BC857	I _C =-10mA, I _B =0	-45		V
		BC858		-30		
V _{(BR)EBO}	Emitter-base		I _E =-10μΑ, I _C =0	-5		v
V (BR)EBO	breakdown voltage			Ŭ		•
		BC856	V _{CB} =-70V, I _E =0			
I _{CBO} Col	Collector cut-off current	BC857	V _{CB} =-50V, I _E =0		-100	nA
		BC858	V _{CB} =-30V, I _E =0			
I _{EBO}	Emitter cut-off current		V _{EB} =-5V, I _C =0		-100	nA
hfe	DC current gain	BC856A BC857A BC858A		110	220	
		BC856B BC857B BC858B	V _{CE} =-5V, I _C =-2mA	200	450	
		BC856C BC857C BC858C		420	800	
V _{CE(sat)}	Collector-emitter				-0.5	v
	saturation voltage		I _C =-100mA		-0.5	v
V _{BE(sat)} Base	Base-emitter saturation		I _B =-5mA		-1.1	v
	voltage				-1.1	v
f⊤	Transition frequency		V _{CE} =-5V, I _C =-10mA,	100		MHz
			f=30MHz	100		
Cob	Collector output		V _{св} =-10V.f= 1МНz		4.5	pF
	capacitance				4.5	hL

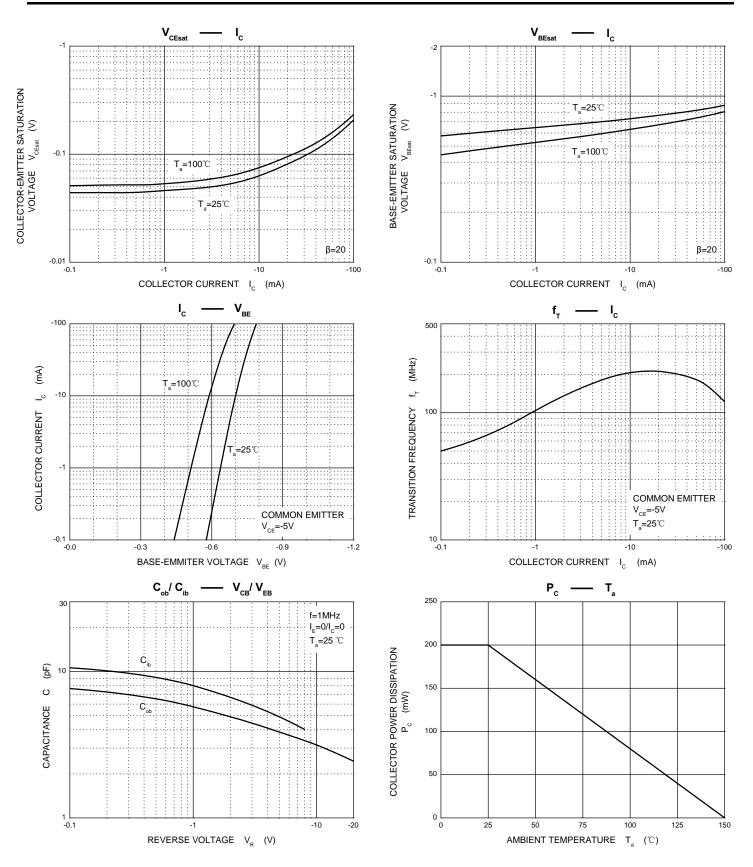
Typical Characteristics





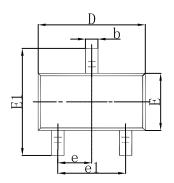


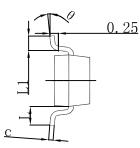
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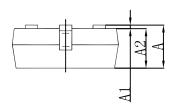




SOT-23 Package Outline Dimensions

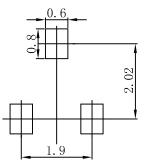






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



Note:

1.Controlling dimension: in millimeters.

2.General tolerance:± 0.05mm. -100 3.The pad layout is for reference purposes only.



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