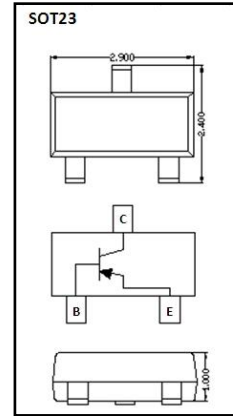


DATA SHEET

BC856A-BC858C

- ◇ Capable of 200mWatts of Power Dissipation
- ◇ Operating and Storage Junction Temperatures: -65°C to 150°C
- ◇ Surface Mount SOT-23 Package
- ◇ RoHS compliant / Green EMC



DEVICE MARKING

BC856A	BC856B	BC857A	BC857B	BC857C	BC858A	BC858B	BC858C
3A	3B	3E	3F	3G	3J	3K	3L

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

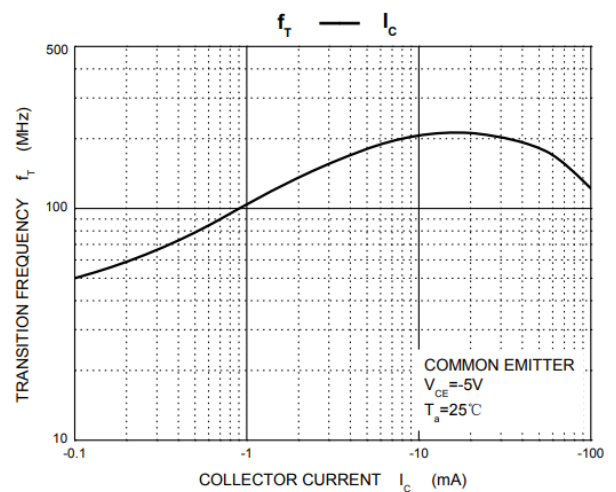
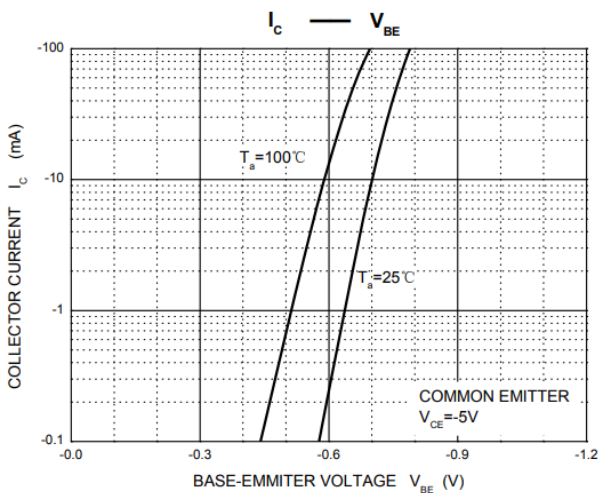
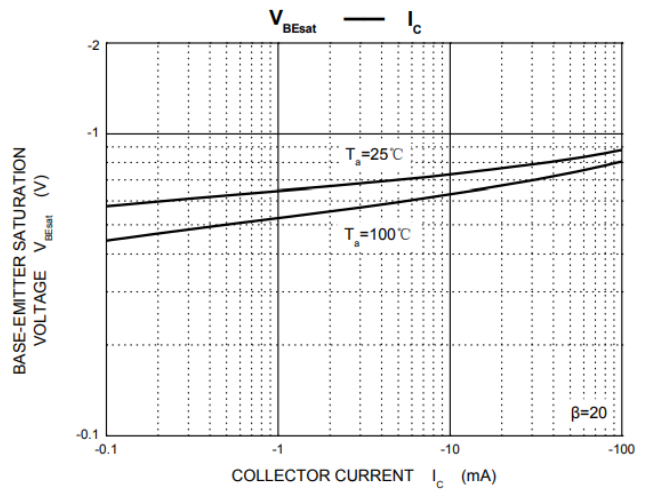
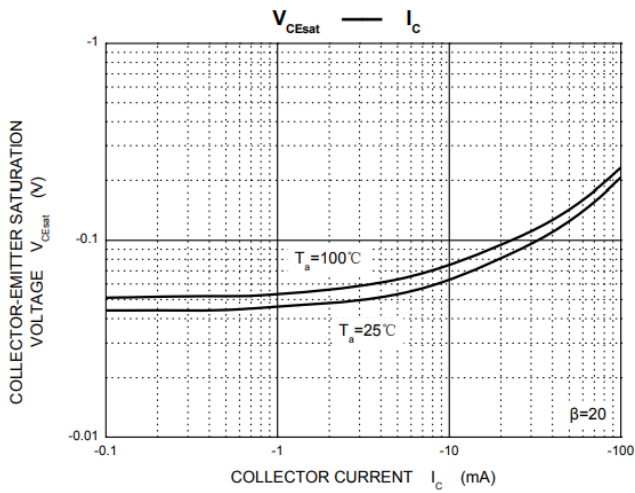
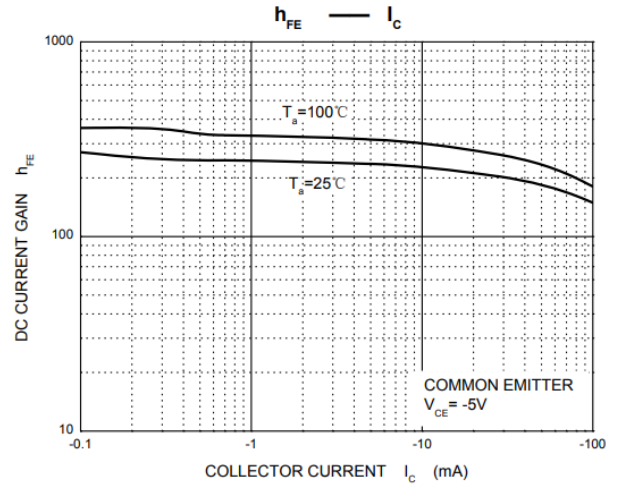
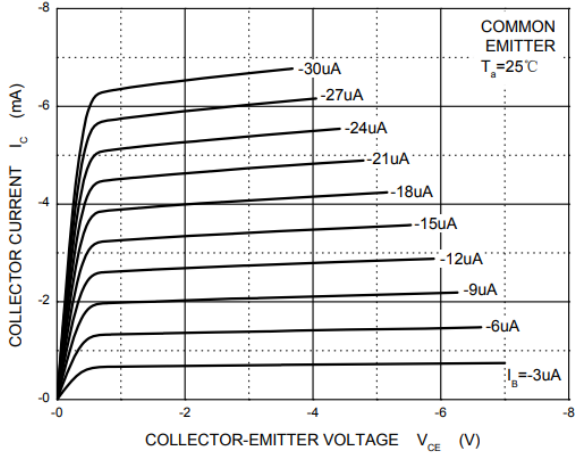
Symbol	Parameter	Value	Unit	
V _{CB0}	Collector-Base Voltage	BC856	-80	V
		BC857	-50	
		BC858	-30	
V _{CE0}	Collector-Emitter Voltage	BC856	-65	V
		BC857	-45	
		BC858	-30	
V _{EB0}	Emitter-Base Voltage	-5	V	
I _c	Collector Current	-100	mA	
P _c	Collector Power Dissipation	200	mW	
R _{θJA}	Thermal Resistance From Junction To Ambient	625	°C/W	
T _j	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-65~+150	°C	

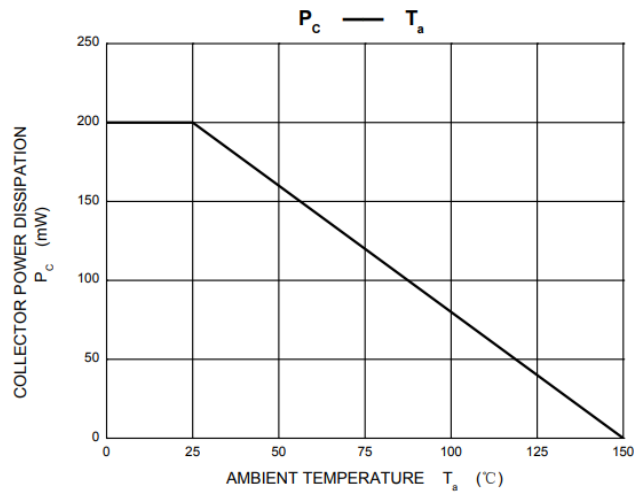
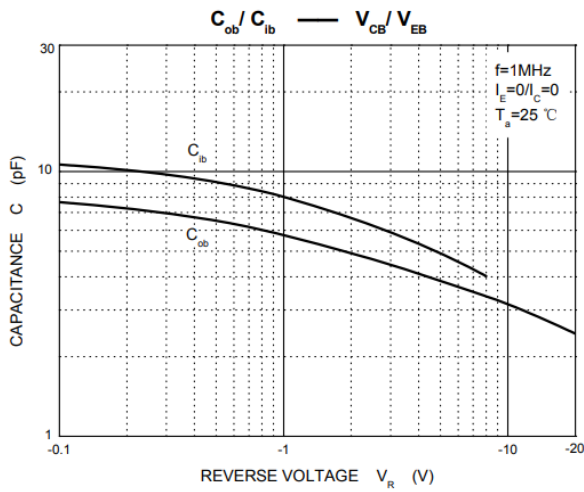
ELECTRICAL CHARACTERISTICS @ 25° C Unless Otherwise Specified

Symbol	Parameter		Test Conditions	Min	Max	Units
V _{CEO}	Collector-Emitter Breakdown Voltage	BC856	I _C =-10mA, I _B =0	-65		V
		BC857		-45		
		BC858		-30		
V _{CBO}	Collector-Base Breakdown Voltage	BC856	I _C =-10μA, I _E =0	-80		V
		BC857		-50		
		BC858		-30		
V _{EBO}	Emitter-Base Breakdown Voltage		I _E =-1μA, I _C =0	-5.0		V
I _{CBO}	Collector Cutoff Current	BC856	V _{CB} =-70V, I _E =0V		100	nA
		BC857	V _{CB} =-45V, I _E =0V			
		BC858	V _{CB} =-25V, I _E =0V			
I _{EBO}	Emitter cut-off current		V _{EB} =-5V, I _C =0V		100	nA
h _{FE}	DC Current Gain	BC856A, BC857A, BC858A	V _{CE} = -5V, I _C = -2mA	125	250	
		BC856B, BC857B, BC858B		220	475	
		BC857C, BC858C		420	800	
V _{CE(sat)}	Collector-Emitter Saturation Voltage		I _C =-100mA, I _B =-5mA		-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage		I _C =-100mA, I _B =-5mA		-1.1	V
f _T	Current Gain-Bandwidth Product		I _C =-10mA, V _{CE} =-5V, f=100MHz	100		MHZ
C _{cb}	Output Capacitance		V _{CB} =-5V, f=1.0MHz		4.5	PF

TYPICAL CHARACTERISTICS

Static Characteristic



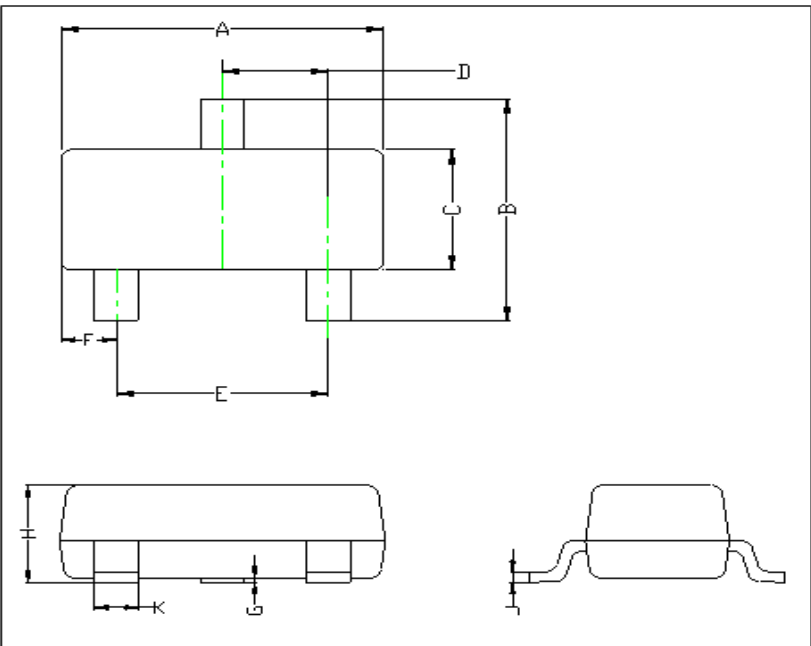


ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BC856A- BC858C	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS

Package Outline : SOT23



Symbol	Dimensions in mm	
	Min.	Max.
A	2.800	3.040
B	2.100	2.640
C	1.200	1.400
D	0.890	1.030
E	1.780	2.050
F	0.450	0.600
G	0.013	0.100
H	0.900	1.110
J	0.090	0.180
K	0.370	0.510

SOT23 Package Outline

Note:
 1. Halogen free ,EMC
 2. Pb free solder
 3. Lead thickness solder plating
 4. Lead frame CAC-5
 5. Other Tolerance ± 0.05
 6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions
 7. Unit : mm

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