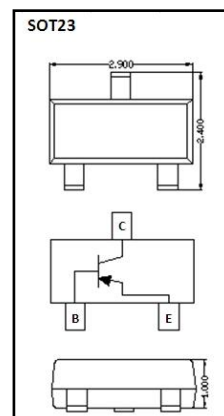


DATA SHEET

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

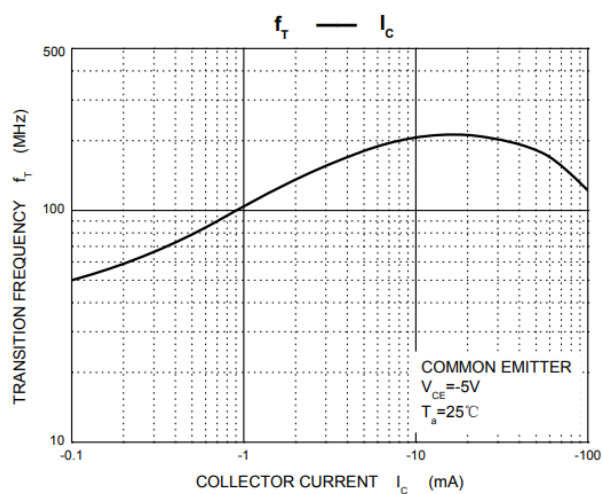
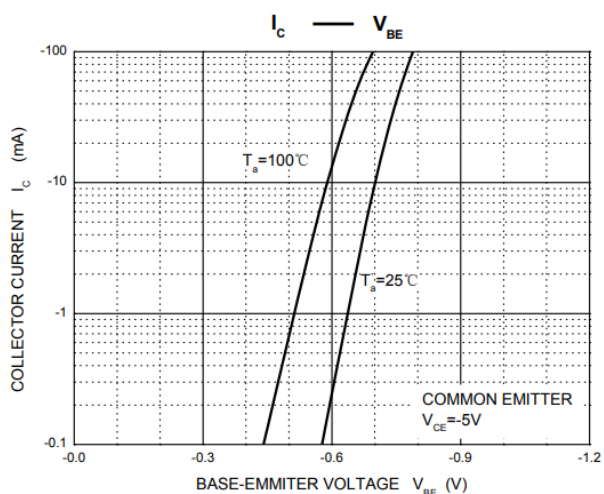
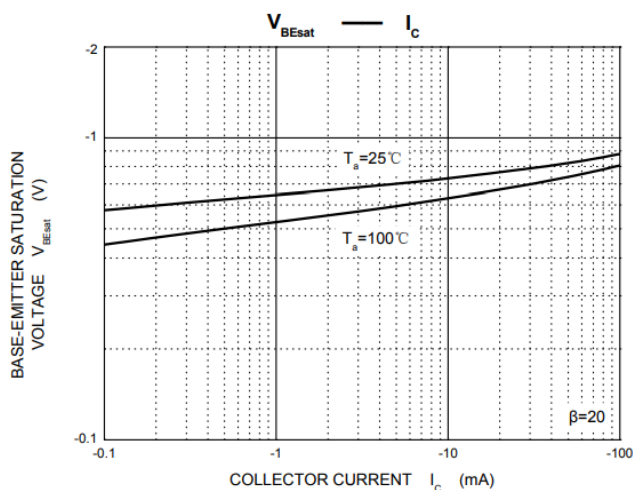
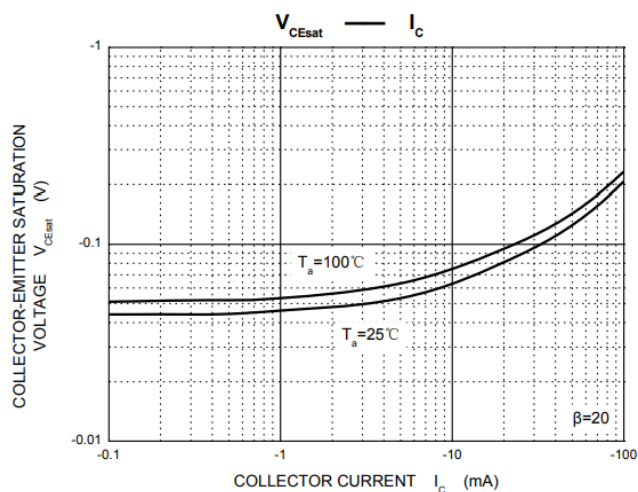
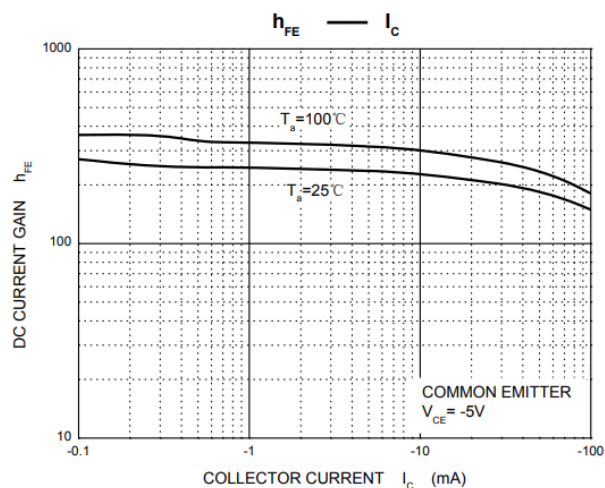
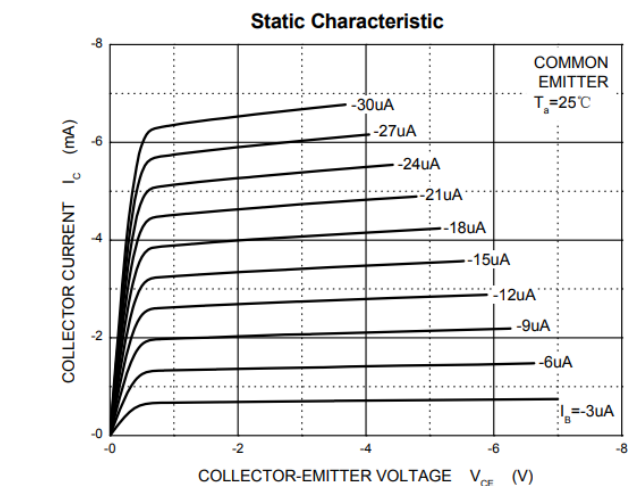
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

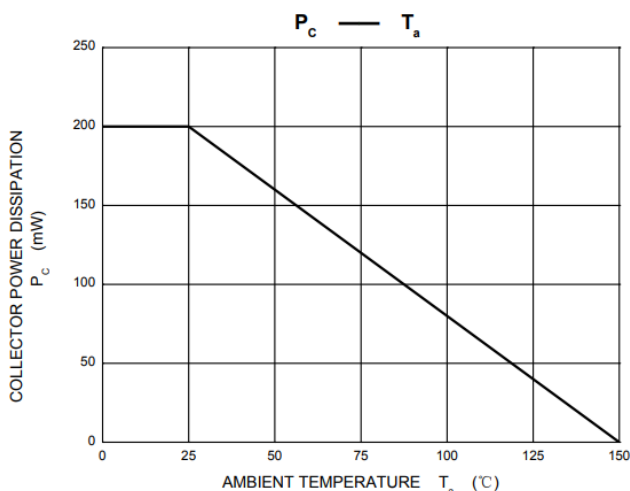
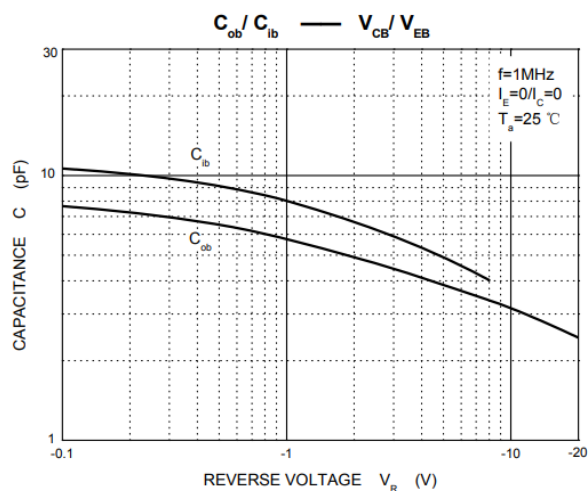
Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	BC856	-80
		BC857	-50
		BC858	-30
V_{CE0}	Collector-Emitter Voltage	BC856	-65
		BC857	-45
		BC858	-30
V_{EB0}	Emitter-Base Voltage	-5	V
I_c	Collector Current	-100	mA
P_c	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	625	$^{\circ}\text{C}/\text{W}$
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-65~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS @ 25° C Unless Otherwise Specified

Symbol	Parameter		Test Conditions	Min	Max	Units
V_{CE0}	Collector-Emitter Breakdown Voltage	BC856	$I_C = -10mA, I_B = 0$	-65		V
		BC857		-45		
		BC858		-30		
V_{CB0}	Collector-Base Breakdown Voltage	BC856	$I_C = -10\mu A, I_E = 0$	-80		V
		BC857		-50		
		BC858		-30		
V_{EB0}	Emitter-Base Breakdown Voltage		$I_E = -1\mu A, I_C = 0$	-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
fT	Current Gain-Bandwidth Product		$I_C = -10mA, V_{CE} = -5V, f = 100MHz$	100		MHZ
Ccb	Output Capacitance		$V_{CB} = -5V, f = 1.0MHz$		4.5	PF

TYPICAL CHARACTERISTICS





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

