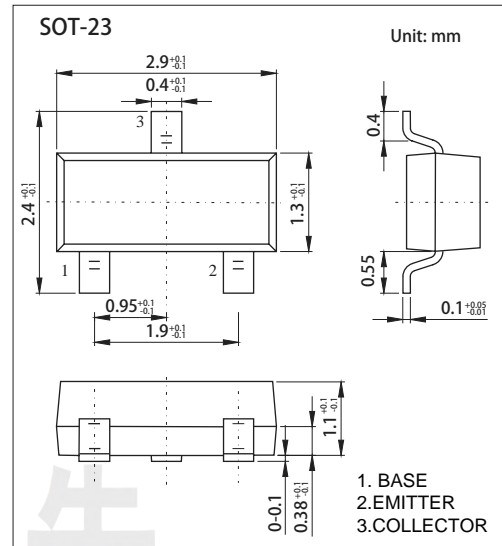


PNP Transistors BC856 ~ BC858

■ Features

- Ideally suited for automatic insertion
- For switching and AF amplifier applications
- Complementary to BC846~BC848



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	BC856	-80	V
	BC857	-50	
	BC858	-30	
Collector - Emitter Voltage	BC856	-65	V
	BC857	-45	
	BC858	-30	
Emitter - Base Voltage	VEBO	-5	
Collector Current - Continuous	IC	-100	mA
Collector Power Dissipation	PC	200	mW
Thermal Resistance, junction to Ambient	RθJA	625	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature	Tstg	-65 to 150	

Transistor

PNP Transistors BC856 ~ BC858

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit	
Collector- base breakdown voltage	BC856	$I_C = -10 \mu A, I_E = 0$	-80			V	
	BC857		-50				
	BC858		-30				
Collector- emitter breakdown voltage	BC856	$I_C = -10 mA, I_B = 0$	-65			V	
	BC857		-45				
	BC858		-30				
Emitter - base breakdown voltage	V_{EBO}	$I_E = -1 \mu A, I_C = 0$	-5				
Collector cut-off current	BC856	I_{CBO}	$V_{CB} = -70 V, I_E = 0$			-0.1	
	BC857		$V_{CB} = -45 V, I_E = 0$				
	BC858		$V_{CB} = -25 V, I_E = 0$				
Collector cut-off current	BC856	I_{CEO}	$V_{CE} = -60 V, I_B = 0$			-0.1	
	BC857		$V_{CE} = -40 V, I_B = 0$				
	BC858		$V_{CE} = -25 V, I_B = 0$				
Emitter cut-off current	I_{EBO}	$V_{EB} = -5 V, I_C = 0$			-0.1		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 mA, I_B = -5 mA$			-0.5	V	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100 mA, I_B = -5 mA$			-1.1		
DC current gain	BC856A,857A,858A	hFE	$V_{CE} = -5 V, I_C = -2 mA$	125		250	
	BC856B,857B,858B			220		475	
	BC857C,858C			420		800	
Collector capacitance	C_{ob}	$V_{CB} = -10 V, f = 1 MHz$			4.5	pF	
Transition frequency	f_T	$V_{CE} = -5 V, I_C = -10 mA, f = 100 MHz$	100			MHz	

■ Classification of hFE

Rank	BC856A	BC856B
Range	125-250	220-475
Marking	3A	3B

Rank	BC847A	BC847B	BC847C
Range	125-250	220-475	420-800
Marking	3E	3F	3G

Rank	BC848A	BC848B	BC848C
Range	125-250	220-475	420-800
Marking	3J	3K	3L

Transistor

PNP Transistors BC856 ~ BC858

Typical Characteristics

