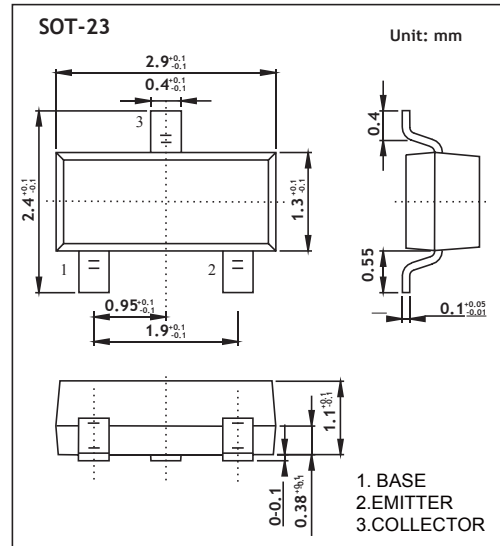


Transistor

PNP Transistors BC856 ~ BC858

■ Features

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



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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	V_{EBO}	-5	
Collector Current - Continuous	I_c	-100	mA
Collector Power Dissipation	P_c	200	mW
Thermal Resistance, junction to Ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-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	Ic= -10 μA, IE=0	-80			V
	BC857		-50			
	BC858		-30			
Collector- emitter breakdown voltage	BC856	Ic= -10 mA, IB=0	-65			
	BC857		-45			
	BC858		-30			
Emitter - base breakdown voltage	VEBO	IE= -1 μA, IC=0	-5			
Collector cut-off current	BC856	ICBO	V _{CB} = -70 V, IE=0			-0.1
	BC857		V _{CB} = -45 V, IE=0			
	BC858		V _{CB} = -25 V, IE=0			
Collector cut-off current	BC856	ICEO	V _{CE} = -60 V, IB=0			-0.1
	BC857		V _{CE} = -40 V, IB=0			
	BC858		V _{CE} = -25 V, IB=0			
Emitter cut-off current	IEBO	VEB= -5V, IC=0			-0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	IC=-100 mA, IB= -5mA			-0.5	V
Base - emitter saturation voltage	V _{BE(sat)}	IC=-100 mA, IB= -5mA			-1.1	
DC current gain	BC856A,857A,858A	hFE	V _{CE} = -5V, IC= -2mA	125		250
	BC856B,857B,858B			220		475
	BC857C,858C			420		800
Collector capacitance	Cob	V _{CB} =-10V ,f=1MHz			4.5	pF
Transition frequency	f _T	V _{CE} =-5V, IC=-10mA,f=100MHz	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

