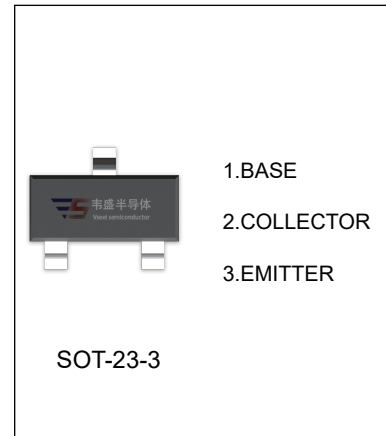


**BC856** TRANSISTOR (PNP)

**BC857**
**BC858**
**FEATURES**

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

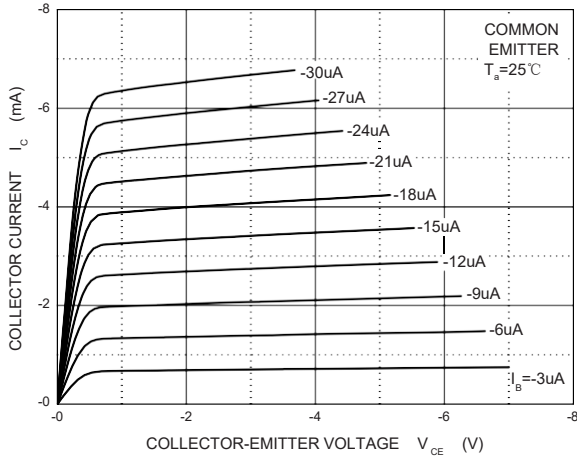

**MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)**

Symbol	Parameter	Value	Unit
<b>V<sub>CB0</sub></b>	Collector-Base Voltage		
	BC856	-80	V
	BC857	-50	
	BC858	-30	
<b>V<sub>CEO</sub></b>	Collector-Emitter Voltage		
	BC856	-65	V
	BC857	-45	
	BC858	-30	
<b>V<sub>EBO</sub></b>	Emitter-Base Voltage	-5	V
<b>I<sub>C</sub></b>	Collector Current –Continuous	-0.1	A
<b>P<sub>C</sub></b>	Collector Power Dissipation	200	mW
<b>R<sub>θJA</sub></b>	Thermal Resistance From Junction To Ambient	625	°C/W
<b>T<sub>J</sub>, T<sub>stg</sub></b>	Operation Junction and Storage Temperature Range	-55~+150	°C

**DEVICE MARKING**

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

Parameter	Symbol	Test conditions	Min	Max	Unit	
Collector-base breakdown voltage	<b>BC856</b>	$I_C = -10\mu A, I_E = 0$	-80		V	
	<b>BC857</b>		-50			
	<b>BC858</b>		-30			
Collector-emitter breakdown voltage	<b>BC856</b>	$I_C = -10mA, I_B = 0$	-65		V	
	<b>BC857</b>		-45			
	<b>BC858</b>		-30			
Emitter-base breakdown voltage	$V_{EBO}$	$I_E = -1\mu A, I_C = 0$	-5		V	
Collector cut-off current	<b>BC856</b>	$I_{CBO}$	$V_{CB} = -70V, I_E = 0$		$\mu A$	
	<b>BC857</b>					$V_{CB} = -45V, I_E = 0$
	<b>BC858</b>					$V_{CB} = -25V, I_E = 0$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$		-0.1	$\mu A$	
DC current gain	<b>BC856A, 857A, 858A</b>	$h_{FE}$	$V_{CE} = -5V, I_C = -2mA$	125	250	
	<b>BC856B, 857B, 858B</b>			220	475	
	<b>BC857C, BC858C</b>			420	800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -5mA$		-0.5	V	
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100mA, I_B = -5mA$		-1.1	V	
Transition frequency	$f_T$	$V_{CE} = -5V, I_C = -10mA$ $f = 100MHz$	100		MHz	
Collector capacitance	$C_{ob}$	$V_{CB} = -10V, f = 1MHz$		4.5	pF	

**Static Characteristic**

 $h_{FE}$  —  $I_c$ 
