

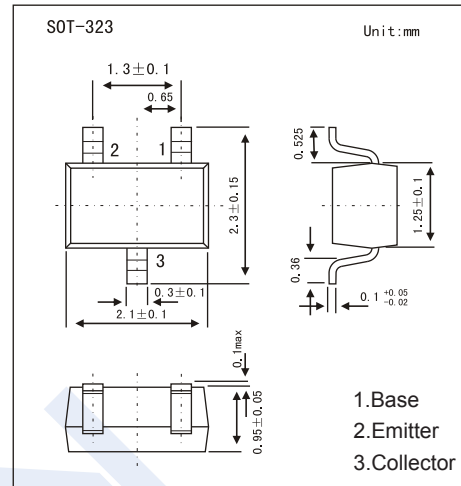
## PNP Transistors

### BC856W, BC857W, BC858W

(KC856W, KC857W, KC858W)

#### ■ Features

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



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	BC856W	-80	V
	BC857W	-50	
	BC858W	-30	
Collector - Emitter Voltage	BC856W	-65	
	BC857W	-45	
	BC858W	-30	
Emitter - Base Voltage	$V_{EBO}$	-5	
Collector Current - Continuous	$I_C$	-100	mA
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-65 to 150	

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■ Electrical Characteristics  $T_a = 25^\circ\text{C}$

Parameter		Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	BC856W	$V_{CB0}$	$I_C = -100 \mu\text{A}, I_E = 0$	-80			V
	BC857W			-50			
	BC858W			-30			
Collector- emitter breakdown voltage	BC856W	$V_{CEO}$	$I_C = -10 \text{mA}, I_B = 0$	-65			V
	BC857W			-45			
	BC858W			-30			
Emitter - base breakdown voltage		$V_{EBO}$	$I_E = -100 \mu\text{A}, I_C = 0$	-5			
Collector-base cut-off current	BC856W	$I_{CBO}$	$V_{CB} = -80 \text{V}, I_E = 0$			-0.1	uA
	BC857W		$V_{CB} = -50 \text{V}, I_E = 0$				
	BC858W		$V_{CB} = -30 \text{V}, I_E = 0$				
Emitter cut-off current		$I_{EBO}$	$V_{EB} = -5 \text{V}, I_C = 0$			-0.1	
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_C = -100 \text{mA}, I_B = -5 \text{mA}$			-0.65	V
Base - emitter saturation voltage		$V_{BE(sat)}$	$I_C = -100 \text{mA}, I_B = -5 \text{mA}$			-1.1	
DC current gain	BC846AW,847AW,848AW	$h_{FE}$	$V_{CE} = -5 \text{V}, I_C = -2 \text{mA}$	125		250	
	BC846BW,847BW,848BW			220		475	
	BC847CW,848CW			420		800	
Collector output capacitance		$C_{ob}$	$V_{CB} = -10 \text{V}, f = 1 \text{MHz}$			4.5	pF
Transition frequency		$f_T$	$V_{CE} = -5 \text{V}, I_C = -10 \text{mA}, f = 100 \text{MHz}$	100			MHz

■ Classification of  $h_{FE}$

Type	BC856AW	BC856BW	BC857AW	BC857BW	BC857CW	BC858AW	BC858BW	BC858CW
Range	125-250	220-475	125-250	220-475	420-800	125-250	220-475	420-800
Marking	3A	3B	3E	3F	3G	3J	3K	3L

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■ Typical Characteristics

