

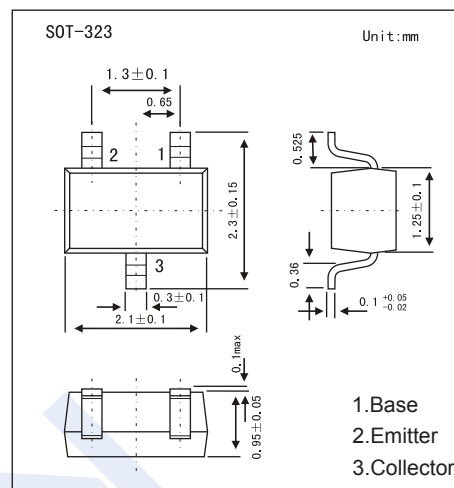
PNP Transistors

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	V_{CB0}	-80	V
	BC857W		-50	
	BC858W		-30	
Collector - Emitter Voltage	BC856W	V_{CE0}	-65	
	BC857W		-45	
	BC858W		-30	
Emitter - Base Voltage		V_{EB0}	-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 Ta = 25°C

Parameter		Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	BC856W	V _{CB0}	I _C = -100 μA, I _E =0	-80			V
	BC857W			-50			
	BC858W			-30			
Collector- emitter breakdown voltage	BC856W	V _{CEO}	I _C = -10 mA, I _B =0	-65			V
	BC857W			-45			
	BC858W			-30			
Emitter - base breakdown voltage		V _{EBO}	I _E = -100 μA, I _C =0	-5			
Collector-base cut-off current	BC856W	I _{CBO}	V _{CB} = -80 V, I _E =0			-0.1	μA
	BC857W		V _{CB} = -50 V, I _E =0				
	BC858W		V _{CB} = -30 V, I _E =0				
Emitter cut-off current		I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	
Collector-emitter saturation voltage		V _{CE(sat)}	I _C =-100 mA, I _B =-5mA			-0.65	V
Base - emitter saturation voltage		V _{BE(sat)}	I _C =-100 mA, I _B =-5mA			-1.1	
DC current gain	BC846AW,847AW,848AW	h _{FE}	V _{CE} = -5V, I _C =-2mA	125		250	
	BC846BW,847BW,848BW			220		475	
	BC847CW,848CW			420		800	
Collector output capacitance		C _{ob}	V _{CB} = -10V,f=1MHz			4.5	pF
Transition frequency		f _T	V _{CE} = -5V, I _C =-10mA,f=100MHz	100			MHz

■ Classification of hfe

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

