

Micro Commercial Components



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Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideally Suited for Automatic Insertion
- Complementary PNP Silicon Types Available
- For Switching and AF Amplifier Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

- Operating temperature : -65°C to +150°C
- Storage temperature : -65℃ to +150℃
- Marking: BC856AW---3A ; BC856BW---3B BC857AW---3E ; BC857BW---3F ; BC857CW---3G BC858AW---3J ; BC858BW---3K ; BC858CW---3L

Electrical Characteristics @ 25° C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
V _{(BR)CBO}	Collector-Base Breakdown Voltage			
()	$(I_c=10\mu Adc, I_E=0)$			
	BC856AW,BW		80	Vdc
	BC857AW,BW,CW		50	
	BC858AW,BW,CW		30	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage			
	$(I_c=10 \text{mAdc}, I_B=0)$			
	BC856AW,BW		65	Vdc
	BC857AW,BW,CW		45	
	BC858AW,BW,CW		30	
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =10µAdc, I _C =0)		5	Vdc
I _{CBO}	Collector Cut-off Current (V _{CB} =30v)		15	nAdc
	$(V_{CB}=30v,T_{A}=150^{\circ}C)$		4	uAdc
H _{FE(1)}	DC Current Gain(V_{CE} =5V, I _C =2mA)		-	4/140
• •FE(1)	BC856AW,BC857AW,BC858AW	125	250	
	BC856BW,BC857BW,BC858CW	220	475	
	BC857CW,BC858CW	420	800	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage	420		
	$(I_{C}=100$ mA, $I_{B}=5$ mA)		0.65	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage		1.10	Vdc
	(I _C =100mA, I _B =5mA)		1.10	Vuo
f _T	Transition Frequency	100	200	MI I-
	(VCE=5V, I _c =10mA, f=100MHz)	100	200	MHz
NF	Noise Figure		10	dB
	(V _{CE} =5v,Ic=200uA,Rs=2kohm,f=1kHz)		10	uв
C_{CBO}	Collector-Base Capacitance		4.5	~ Г
	(V _{CB} =10v,f=1.0kHz)		4.5	pF
Pd	Power Dissipation		150	mW
R _{JA}	Thermal Resistance, Juncition to		COF	°C AA/
	Ambient		625	°C/W
lc	Collector Current - Continuous		100	mA

Note 1: Transistor mounted on an FR4 printed-circuit board

BC856AW/BW BC857AW/BW/CW BC858AW/BW/CW

PNP General Purpose Transistors





BC856A/BW;BC857A/B/CW;BC858A/B/CW

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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel 3Kpcs/Reel	

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