

BC856W/7W/8W

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =-30V, I _E =0	-	-	-15	nA
DC Current Gain (Note)	BC856W	V _{CE} =-5V, I _C =-2mA	125	-	475	
	BC857W		125	-	800	
	BC858W		125	-	800	
Collector-Emitter Saturation Voltage	V _{CE(sat)} 1	I _C =-10mA, I _B =-0.5mA	-	-0.09	-0.3	V
	V _{CE(sat)} 2	I _C =-100mA, I _B =-5mA	-	-0.25	-0.65	
Base-Emitter Saturation Voltage	V _{BE(sat)} 1	I _C =-10mA, I _B =-0.5mA	-	-0.7	-	V
	V _{BE(sat)} 2	I _C =-100mA, I _B =-5mA	-	-0.9	-	
Base-Emitter Voltage	V _{BE(ON1)}	V _{CE} =-5V, I _C =-2mA	-0.6	-0.65	-0.75	V
Base-Emitter Voltage	V _{BE(ON2)}	V _{CE} =-5V, I _C =-10mA	-	-	-0.82	V
Transition Frequency	f _T	V _{CE} =-5V, I _C =-10mA, f=100MHz	-	150	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	4.5	-	pF
Noise Figure	NF	V _{CE} =-6V, I _C =-0.2mA R _g =2kΩ, f=1kHz	-	2.0	10	dB

NOTE : According to the value of h_{FE} the BC856, BC857, BC858 are classified as follows.

CLASSIFICATION		A	B	C
h _{FE}	BC856W	125 250	220 475	-
	BC857W	125 250	220 475	420 800
	BC858W	125 250	220 475	420 800

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