

SEMICONDUCTOR TECHNICAL DATA

BC856/7/8

EPITAXIAL PLANAR PNP TRANSISTOR

GENERAL PURPOSE APPLICATION. SWITCHING APPLICATION .

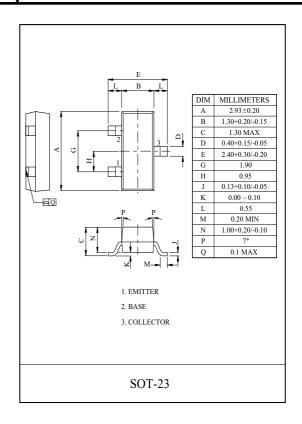
FEATURES

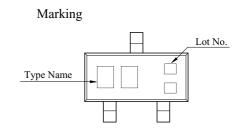
· For Complementary With NPN Type BC846/847/848.

MAXIMUM RATING (Ta=25)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
	BC856		-80		
Collector-Base Voltage	BC857	V _{CBO}	-50	V	
	BC858		-30		
G 11	BC856		-65		
Collector-Emitter Voltage	BC857	C858 -30 C856 -5	-45	V	
Voltage	BC858		-30		
	BC856		-5		
Emitter-Base Voltage	BC857	V _{EBO}	-5	V	
	BC858		-5		
Collector Current		I_{C}	-100	mA	
Emitter Current		$I_{\rm E}$	100	mA	
Collector Power Dissipatio	n	P _C *	P _C * 350		
Junction Temperature		T _j	j 150		
Storage Temperature Range		T_{stg}	-55 150		

 P_c^* : Package Mounted On 99.5% Alumina $10 \times 8 \times 0.6$ mm.





MARK SPEC

TYPE	BC856A	BC856B	BC857A	BC857B	BC857C	BC858A	BC858B	BC858C
MARK	3A	3B	3E	3F	3G	3Ј	3K	3L

BC856/7/8

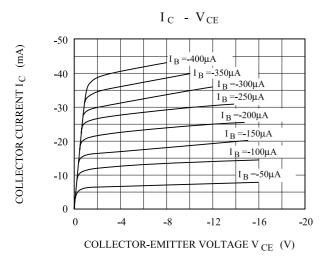
ELECTRICAL CHARACTERISTICS (Ta=25)

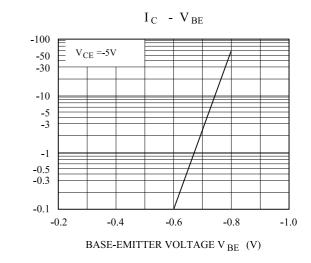
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	V_{CB} =-30V, I_{E} =0	-	-	-15	nA
	BC856			125	-	475	
DC Current Gain (Note)	BC857	h_{FE}	V_{CE} =-5V, I_{C} =-2mA	125	-	800	
	BC858			125	-	800	
Collector-Emitter Saturation Voltag		V _{CE(sat)} 1	I _C =-10mA, I _B =-0.5mA	-	-0.09	-0.3	V
Conector-Emitter Saturation Voltag	c	V _{CE(sat)} 2	I _C =-100mA, I _B =-5mA	-	-0.25	-0.65	V
Daga Emittan Catamatian Valtaga		V _{BE(sat)} 1	I _C =-10mA, I _B =-0.5mA	-	-0.7	-	V
Base-Emitter Saturation Voltage		V _{BE(sat)} 2	I _C =-100mA, I _B =-5mA	-	-0.9	-	V
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} =2k , f=1kHz		2.0	10	dB

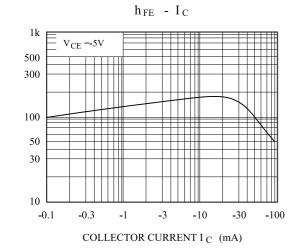
NOTE : According to the value of $h_{\rm FE}$ the BC856, BC857, BC858 are classified as follows.

CLASSII	FICATION	A	В	С
	BC856	125 250	220 475	-
h_{FE}	BC857	125 250	220 475	420 800
	BC858	125 250	220 475	420 800

COLLECTOR CURRENT I_C (mA)







DC CURRENT GAIN hFE

CAPACITANCE Cob (pF)

