



SOT-23 Plastic-Encapsulate Transistors

BC846 TRANSISTOR (NPN)

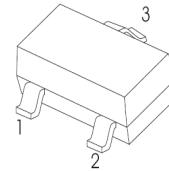
BC847

BC848

FEATURES

- Ideally suited for automatic insertion
- For switching and AF amplifier applications

SOT-23



1. BASE
2. Emitter
3. COLLECTOR

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage		
	BC846	80	
	BC847	50	
V_{CEO}	Collector-Emitter Voltage		
	BC846	65	
	BC847	45	
V_{EBO}	Emitter-Base Voltage	6	V
	I_C	0.1	A
	P_c	200	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^\circ\text{C}$

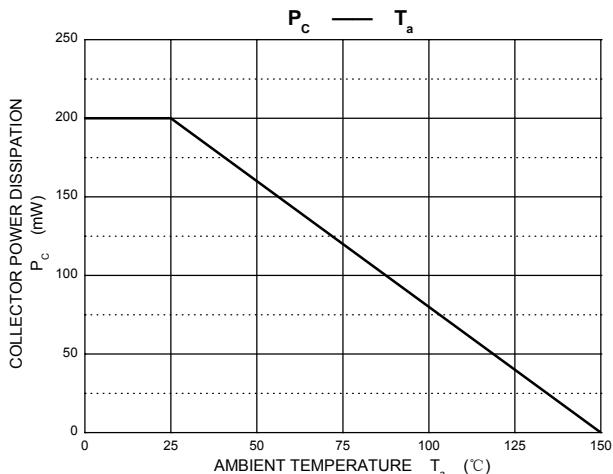
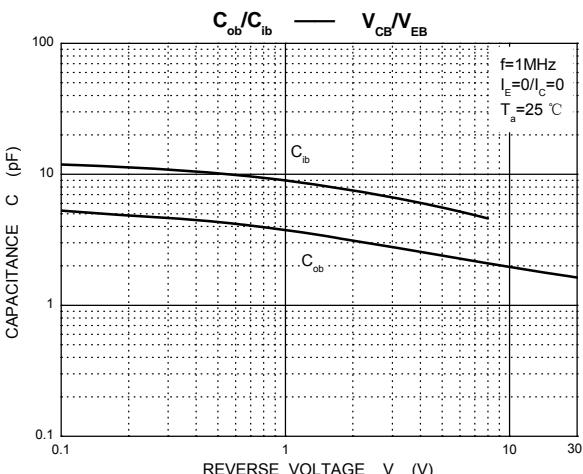
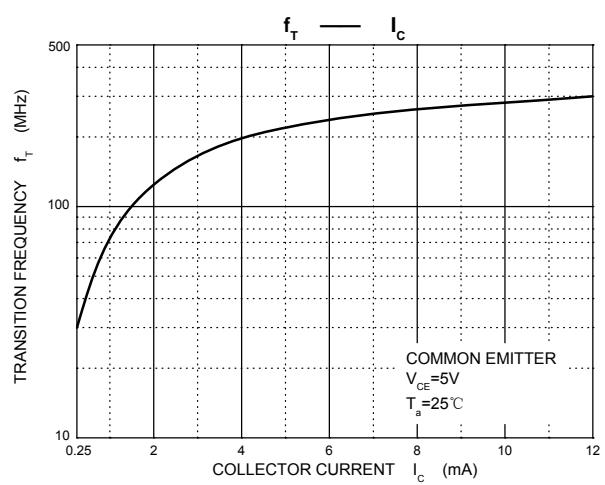
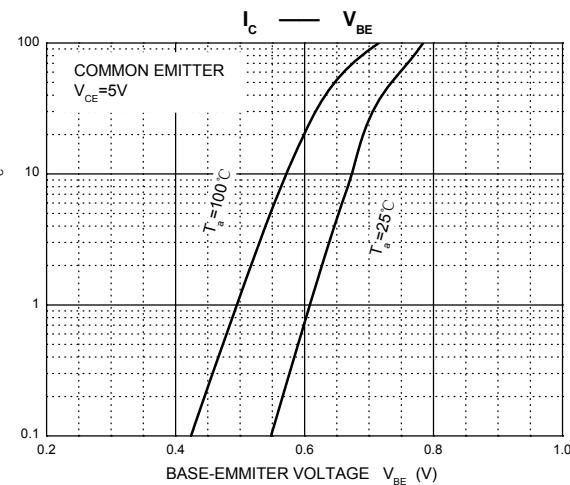
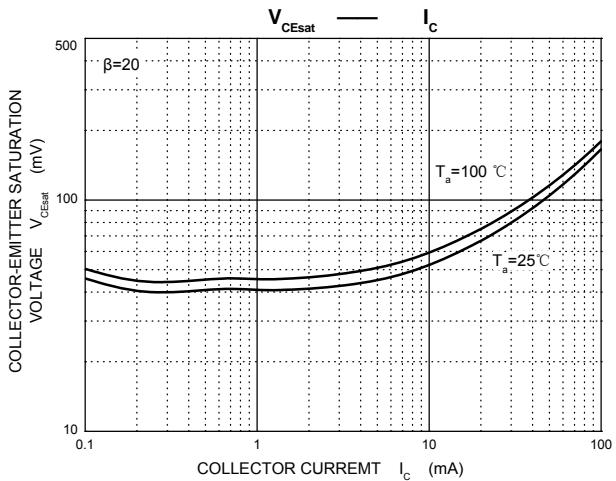
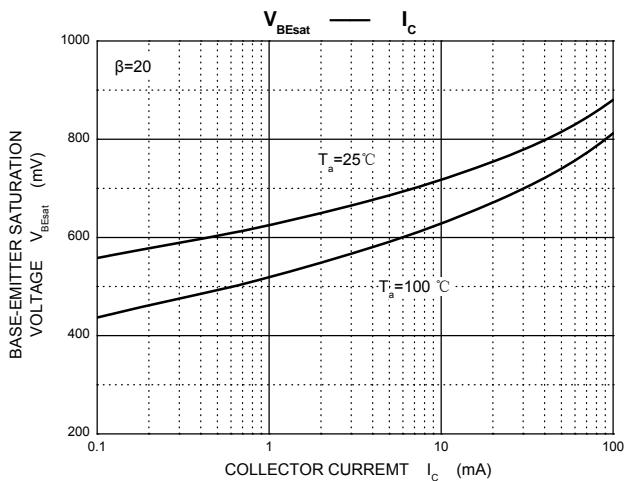
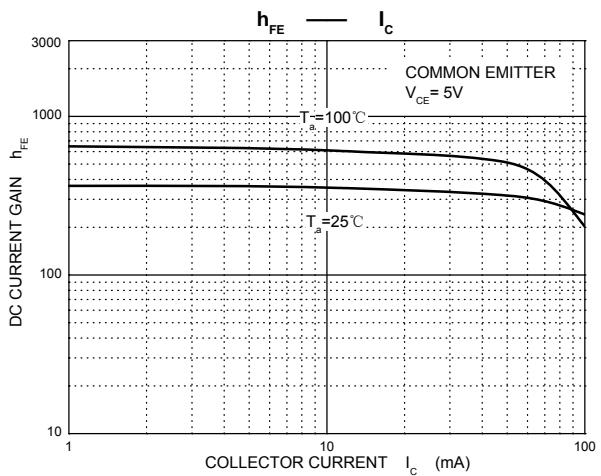
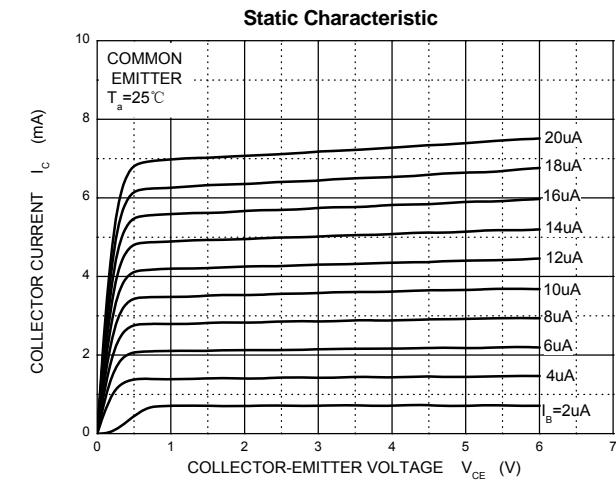
DEVICE MARKING

BC846A=1A; BC846B=1B;
BC847A=1E; BC847B=1F; BC847C=1G;
BC848A=1J; BC848B=1K; BC848C=1L

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BC846	V _{CBO}	80			
	BC847		50			V
	BC848		30			
Collector-emitter breakdown voltage	BC846	V _{CEO}	65			
	BC847		45			V
	BC848		30			
Emitter-base breakdown voltage	V _{EBO}	I _E = 10µA, I _C =0	6			V
Collector cut-off current	BC846	I _{CBO}	V _{CB} =70 V , I _E =0			
	BC847		V _{CB} =50 V , I _E =0		0.1	µA
	BC848		V _{CB} =30 V , I _E =0			
Collector cut-off current	BC846	I _{CEO}	V _{CE} =60 V , I _B =0			
	BC847		V _{CE} =45 V , I _B =0		0.1	µA
	BC848		V _{CE} =30 V , I _B =0			
Emitter cut-off current	I _{EBO}	V _{EB} =5 V , I _C =0			0.1	µA
DC current gain	BC846A,847A,848A	h _{FE}	V _{CE} = 5V, I _C = 2mA	110		220
	BC846B,847B,848B			200		450
	BC847C,BC848C			420		800
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B = 5mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA, I _B = 5mA			1.1	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 10mA f=100MHz	100			MHz
Collector output capacitance	C _{ob}	V _{CB} =10V,f=1MHz			4.5	pF

Typical Characteristics BC846/BC847/BC848



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