

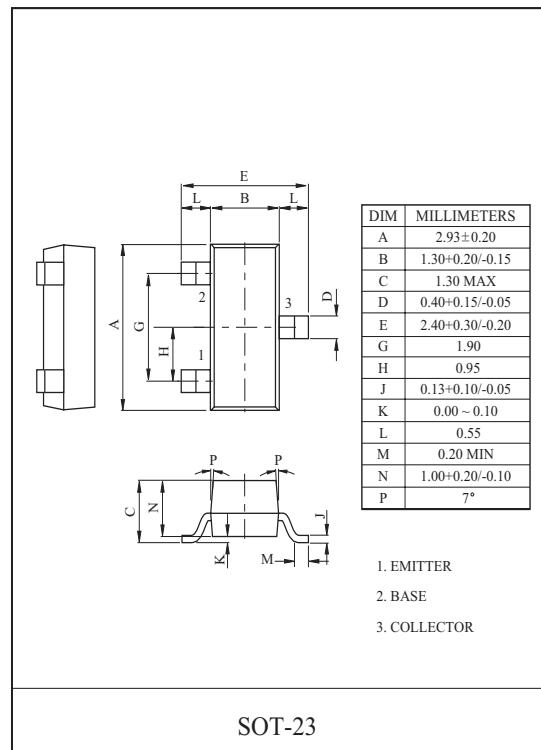
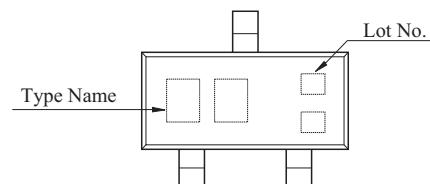
**GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.**
FEATURES

- High Voltage : BC846 $V_{CEO}=65V$.
- For Complementary With PNP Type BC856/857/858.
- Suffix **U** : Qualified to AEC-Q101
ex) BC846-A-RTK/**PU**

MAXIMUM RATING (Ta=25)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	BC846	V_{CBO}	80	V
	BC847		50	
	BC848		30	
Collector-Emitter Voltage	BC846	V_{CEO}	65	V
	BC847		45	
	BC848		30	
Emitter-Base Voltage	BC846	V_{EBO}	6	V
	BC847		6	
	BC848		5	
Collector Current	DC	I_C	100	mA
	PULSE	I_{CP}	200	
Base Current		I_B	20	mA
Emitter Current		I_E	-100	mA
Collector Power Dissipation		P_C *	350	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 ~ 150	

P_C * : Package Mounted On 99.5% Alumina 10 × 8 × 0.6mm.

**Marking****MARK SPEC**

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

BC846/7/8

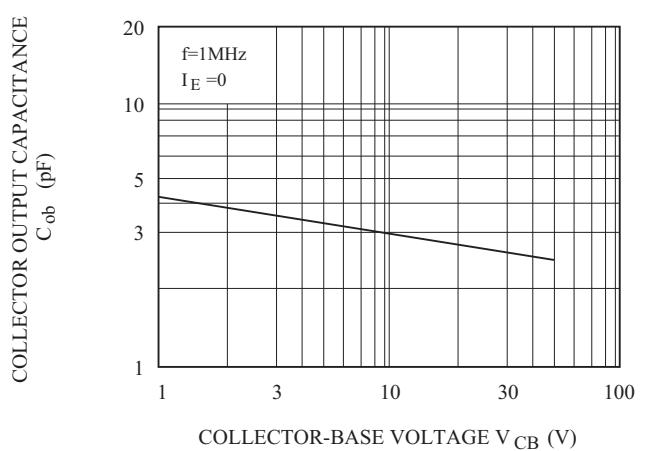
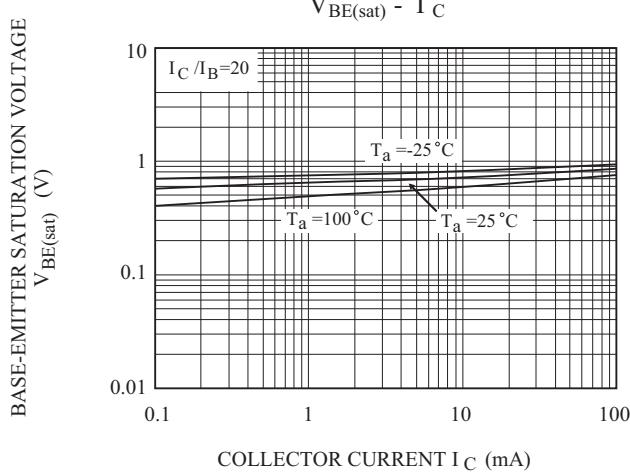
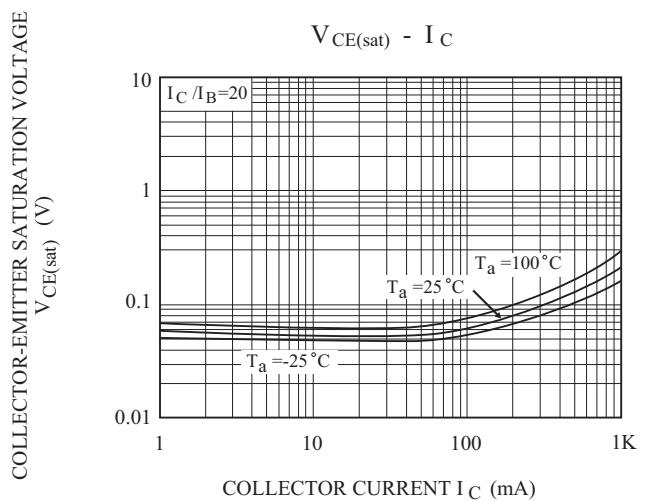
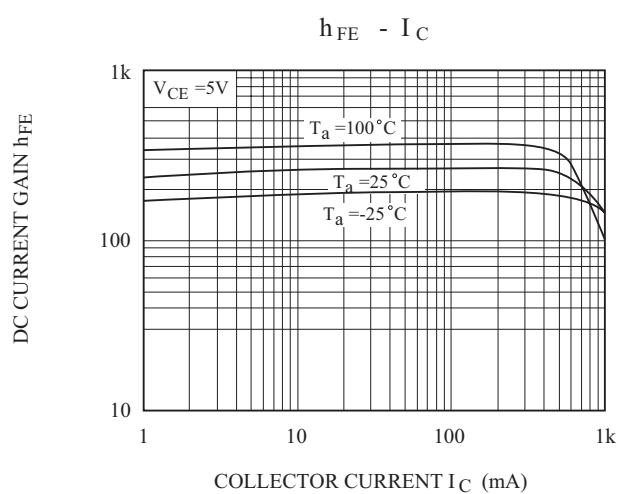
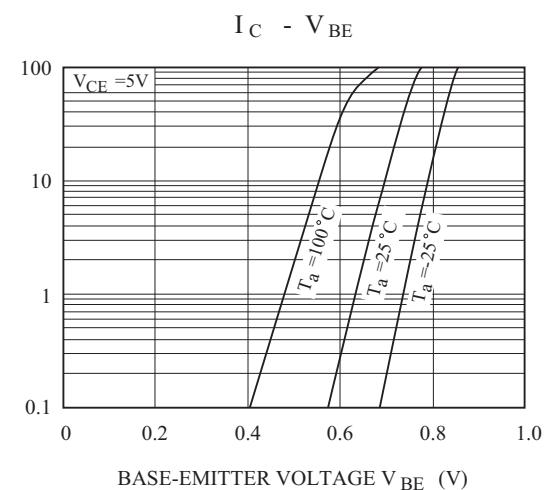
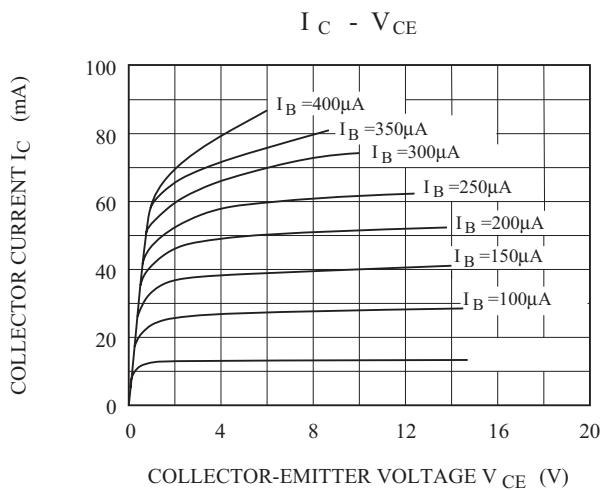
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

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)	BC846	h _{FE}	V _{CE} =5V, I _C =2mA	110	-	450	
	BC847			110	-	800	
	BC848			110	-	800	
Collector-Emitter Saturation Voltage		V _{CE(sat) 1}	I _C =10mA, I _B =0.5mA	-	0.09	0.25	V
		V _{CE(sat) 2}	I _C =100mA, I _B =5mA	-	0.2	0.6	
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	0.58	-	0.7	V
		V _{BE(ON2)}	V _{CE} =5V, I _C =10mA	-	-	0.75	V
Transition Frequency	f _T	V _{CE} =5V, I _C =10mA, f=100MHz		-	300	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		-	2.5	4.5	pF
Noise Figure	NF	V _{CE} =6V, I _C =0.1mA R _g =10kΩ, f=1kHz		-	1.0	10	dB

NOTE : According to the value of h_{FE} the BC846, BC847, BC848 are classified as follows.

CLASSIFICATION		A	B	C
h _{FE}	BC846	110 220	200 450	-
	BC847	110 220	200 450	420 800
	BC848	110 220	200 450	420 800

BC846/7/8



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