

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## BC846A THRU BC848C

### **Features**

- Power Dissipation: 0.225W (T<sub>amb</sub>=25℃)(Note 1)
- Collector Current: 0.1A
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

### **Maximum Ratings**

Operating temperature : -55°C to +150°C
Storage temperature : -55°C to +150°C

### **DEVICE MARKING**

Symbol

BC846A=1A,46A; BC846B=1B,46B;

BC847A=1E,47A; BC847B=1F,47B; BC847C=1G,47C; BC848A=1J,48A; BC848B=1K,48B: BC848C=1L,48C

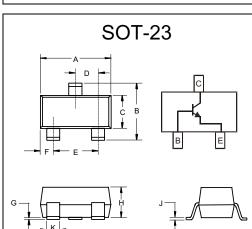
Parameter

### Electrical Characteristics @ 25% Unless Otherwise Specified

OFF CHARA	CTERISTICS			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>C</sub> =10µAdc, I <sub>F</sub> =0)			Vdc
	BC846		80	
	BC847		50	
	BC848		30	
$V_{(BR)CEO}$	V <sub>(BR)CEO</sub> Collector-Emitter Breakdown Voltage (I <sub>C</sub> =10mAdc, I <sub>B</sub> =0)			Vdc
	BC846		65	
	BC847		45	
	BC848		30	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =10µAdc, I <sub>C</sub> =0)		6	Vdc
I <sub>CBO</sub>	Collector Cut-off Current		0.1	μAdc
	BC846 (V <sub>CB</sub> =80V, I <sub>E</sub> =0)			
	BC847 (V <sub>CB</sub> =50V, I <sub>E</sub> =0)			
	BC848 ( $V_{CB}$ =30V, $I_{E}$ =0)			
I <sub>CEO</sub>	I <sub>CEO</sub> Collector Cut-off Current		0.1	μAdc
	BC846 (V <sub>CE</sub> =60V, I <sub>B</sub> =0)			
	BC847 (V <sub>CE</sub> =45V, I <sub>B</sub> =0)			
	BC848 (V <sub>CE</sub> =30V, I <sub>B</sub> =0)			
I <sub>EBO</sub>	I <sub>EBO</sub> Emitter Cut-off Current		0.1	μAdc
	(V <sub>EB</sub> =5V, I <sub>C</sub> =0mA)			
H <sub>FE(1)</sub>	DC Current Gain(V <sub>CE</sub> =5V, I <sub>C</sub> =2mA)			
	BC846A, 847A, 848A	110	220	
	BC846B, 847B, 848B	200	450	
	BC847C, BC848C	420	800	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =100mA, I <sub>B</sub> =5mA)		0.5	Vdc
V <sub>BE(sat)</sub>	V <sub>BE(sat)</sub> Base-Emitter Saturation Voltage		1.1	Vdc
	$(I_C=100\text{mA}, I_B=5\text{mA})$			
$f_{T}$	Transition Frequency	100		MHz
	$(V_{CE}=5V, I_{C}=10mA, f=100MHz)$			

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

# NPN Plastic-Encapsulate Transistors



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.110	.120	2.80	3.04			
В	.083	.098	2.10	2.64			
С	.047	.055	1.20	1.40			
D	.035	.041	.89	1.03			
Е	.070	.081	1.78	2.05			
F	.018	.024	.45	.60			
G	.0005	.0039	.013	.100			
Н	.035	.044	.89	1.12			
J	.003	.007	.085	.180			
K	015	020	37	51			

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### **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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