Micro Commercial Components
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BC846A THRU BC849C

NPN Plastic-Encapsulate Transistors

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power Dissipation: 0.225W (T_{amb}=25℃)(Note 1)
- Collector Current: 0.1A
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating temperature : -55℃ to +150℃
- Storage temperature : -55℃ to +150℃

DEVICE MARKING

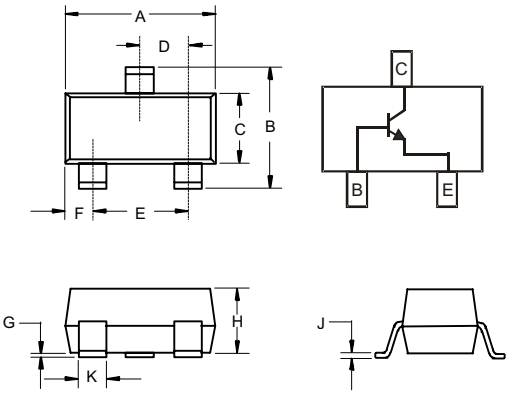
BC846A=1A,46A; BC846B=1B,46B;
BC847A=1E,47A; BC847B=1F,47B; BC847C=1G,47C;
BC848A=1J,48A; BC848B=1K,48B: BC848C=1L,48C
BC849B=49B; BC849C=49C;

Electrical Characteristics @ 25℃ Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I_C=10μAdc, I_E=0)			Vdc
	BC846	---	80	
	BC847	---	50	
	BC848, BC849	---	30	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I_C=10mAdc, I_B=0)			Vdc
	BC846	---	65	
	BC847	---	45	
	BC848,BC849	---	30	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I_E=10μAdc, I_C=0)	---	6	Vdc
I_{CBO}	Collector Cut-off Current	---	0.1	μAdc
	BC846 (V_{CB}=80V, I_E=0)			
	BC847 (V_{CB}=50V, I_E=0)			
	BC848, BC849 (V_{CB}=30V, I_E=0)			
I_{CEO}	Collector Cut-off Current	---	0.1	μAdc
	BC846 (V_{CE}=60V, I_B=0)			
	BC847 (V_{CE}=45V, I_B=0)			
	BC848, BC849 (V_{CE}=30V, I_B=0)			
I_{EBO}	Emitter Cut-off Current (V_{EB}=5V, I_C=0mA)	---	0.1	μAdc
$H_{FE(1)}$	DC Current Gain(V_{CE}=5V, I_C=2mA)			
	BC846A, 847A, 848A	110	220	
	BC846B, 847B, 848B ,849B	200	450	
	BC847C, BC848C ,BC849C	420	800	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=100mA, I_B=5mA)	---	0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I_C=100mA, I_B=5mA)	---	1.1	Vdc
f_T	Transition Frequency (V_{CE}=5V, I_C=10mA, f=100MHz)	100	---	MHz

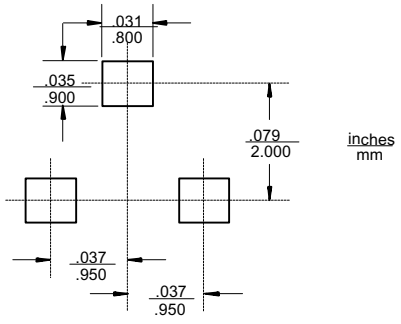
Note 1: Transistor mounted on an FR4 printed-circuit board

SOT-23



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel;3Kpcs/Reel

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