

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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BC846A THRU BC849C

Features

- Power Dissipation: 0.225W (T_{amb}=25 °C)(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

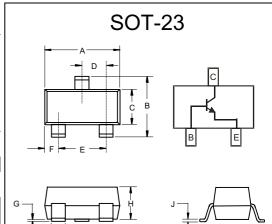
BC849B=49B; BC849C=49C;

Electrical Characteristics @ 25% Unless Otherwise Specified

V _{(BR)CBO}	Collector-Base Breakdown Voltage			Vdc
(=::,===	$(I_{C}=10\mu Adc, I_{E}=0)$			
	BC846		80	
	BC847		50	
	BC848, BC849		30	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage			Vdc
	$(I_C=10\text{mAdc}, I_B=0)$			
	BC846		65	
	BC847		45	
	BC848,BC849		30	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage			Vdc
	$(I_E=10\mu Adc, I_C=0)$		6	
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		0.1	μAdc
	$(V_{EB}=5V, I_{C}=0mA)$			
$H_{FE(1)}$	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		0.5	Vdc
	$(I_C=100\text{mA}, I_B=5\text{mA})$			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.1	Vdc
	$(I_C=100\text{mA}, I_B=5\text{mA})$			
f⊤	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			



Ordering Information

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

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