

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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Min

Max

BC846A THRU BC849C

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates
 - RoHS Compliant. See ordering information) Power Dissipation: 0.225W (T_{amb}=25°C)(Note 1)
- Collector Current: 0.1A
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 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

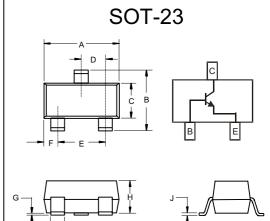
BC849B=49B; BC849C=49C;

Electrical Characteristics @ 25% Unless Otherwise Specified

OFF CHARAC	CTERISTICS			
$V_{(BR)CBO}$	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			Vdc
	(I _C =10mAdc, I _B =0)			
	BC846		65	
	BC847		45	
<u> </u>	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) Collector Cut-off Current	-	0.1	11 A A A
I _{CEO}	BC846 (V _{CE} =60V, I _B =0)		0.1	μAdc
	BC846 (V _{CE} =60V, I _B =0) BC847 (V _{CE} =45V, I _B =0)	1		
	BC848, BC849 (V _{CE} =30V, I _B =0)]		
I _{EBO}	Emitter Cut-off Current		0.1	μAdc
iEBO	(V _{EB} =5V, I _C =0mA)]	J.,	μ, ισο
H _{FE(1)}	DC Current Gain(V _{CE} =5V, I _C =2mA)			
L(1)	BC846A, 847A, 848A	110	220	
I	BC846B, 847B, 848B,849B	200	450	
	BC847C, BC848C ,BC849C	420	800	
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.5	Vdc
(,	(I _C =100mA, I _B =5mA)			<u> </u>
V _{BE(sat)}	Base-Emitter Saturation Voltage		1.1	Vdc
	(I _C =100mA, I _B =5mA)			
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				

Suggested Solder

Pad Layout 0.31 800 .800 .079 .037 .037 .037 .037



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Ordering Information:

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

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