

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

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
- Halogen free available upon request by adding suffix "-HF"

Operating temperature : -55°C to +150°C Storage temperature : -55° C to $+150^{\circ}$ 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

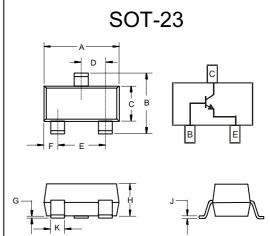
BC849B=49B; BC849C=49C;

Electrical Characteristics @ 25° C 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 (I _C =10mAdc, I _B =0)			Vdc
	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)	440	000	
	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
$V_{BE(sat)}$	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)			

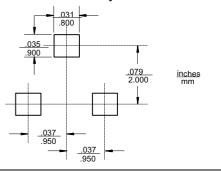
Note 1: Transistor mounted on an FR4 printed-circuit board

NPN Plastic-Encapsulate Transistors



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.110	.120	2.80	3.04			
В	.083	.104	2.10	2.64			
С	.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			
Н	.035	.044	.89	1.12			
J	.003	.007	.085	.180			
K	.015	.020	.37	.51			

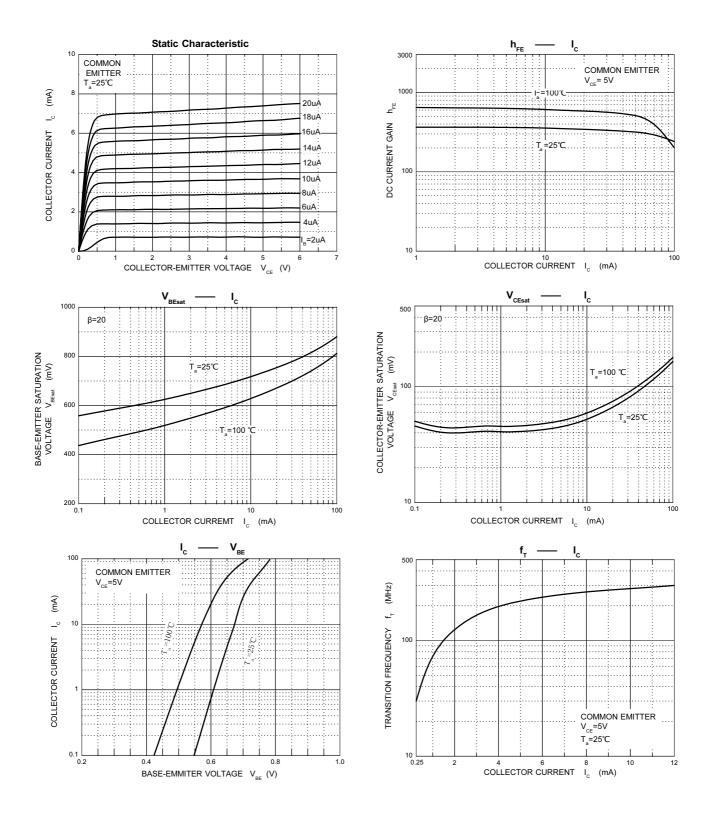
Suggested Solder Pad Layout





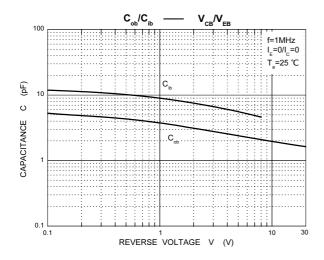
BC846A thru BC849C

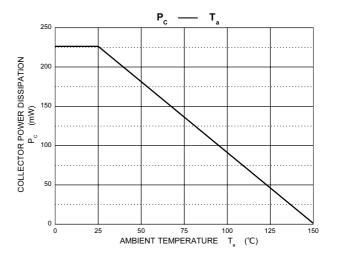






BC846A thru BC849C







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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com