Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC) BC847A-TP

For any questions, you can email us directly: sales@integrated-circuit.com



Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

THRU BC849C

BC846A

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"

Maximum Batinus

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

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

Parameter

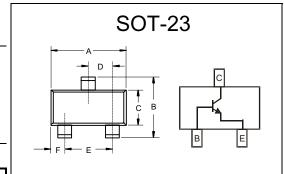
BC849B=49B; BC849C=49C;

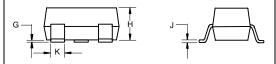
Electrical Characteristics @ 25% Unless Otherwise Specified

OFF CHARA	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 ($V_{CB}=70V, I_{E}=0$)			•
	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
V7	$(I_{C}=100\text{mA}, I_{B}=5\text{mA})$			
f _T	Transition Frequency	100		MHz
	$(V_{CE}=5V, I_{C}=10mA, f=100MHz)$			

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

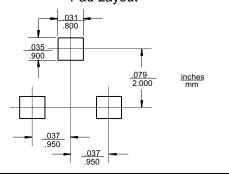
NPN **Plastic-Encapsulate Transistors**





DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.110	.120	2.80	3.04			
В	.083	.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



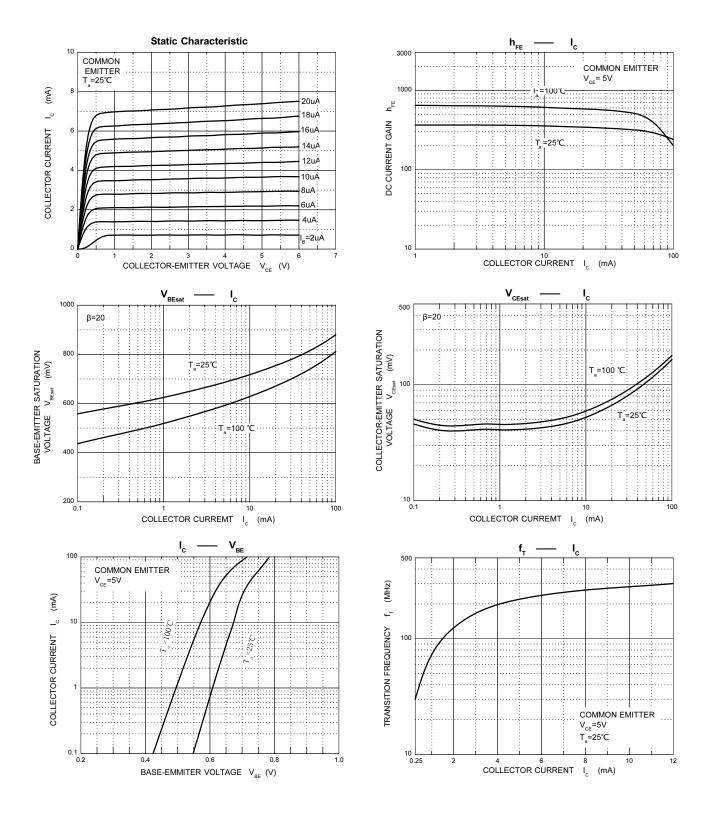


Datasheet of BC847A-TP - TRANS NPN 45V 0.1A SOT23

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BC846A thru BC849C





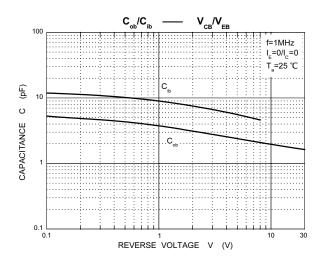
Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

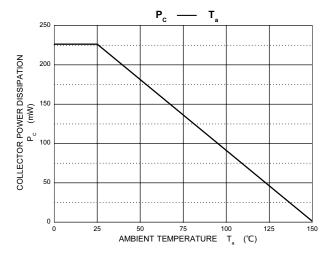
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Ordering Information:

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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