



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 ($T_{amb}=25^{\circ}C$)(Note 1)
- Collector Current: 0.1A
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating temperature : $-55^{\circ}C$ to $+150^{\circ}C$
- Storage temperature : $-55^{\circ}C$ 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
 BC849B=49B; BC849C=49C;

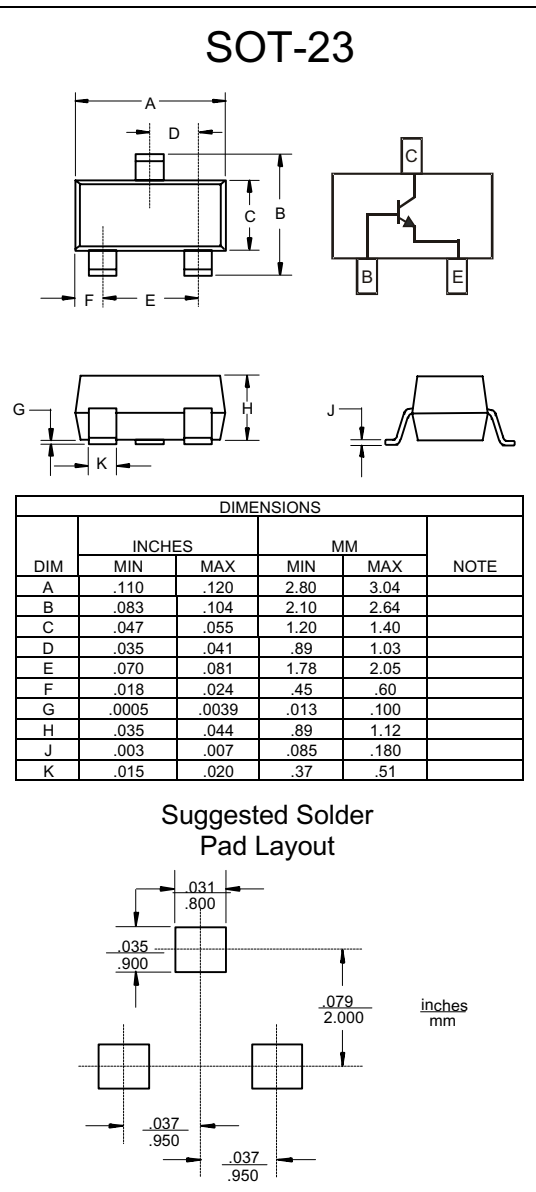
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=10\mu A$, $I_E=0$)	BC846	---	80	Vdc	
		BC847	---	50		
		BC848, BC849	---	30		
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10mA$, $I_B=0$)	BC846	---	65	Vdc	
		BC847	---	45		
		BC848, BC849	---	30		
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	---	6	Vdc		
I_{CBO}	Collector Cut-off Current BC846 ($V_{CB}=80V$, $I_E=0$) BC847 ($V_{CB}=50V$, $I_E=0$) BC848, BC849 ($V_{CB}=30V$, $I_E=0$)	---	0.1	μA		
		I_{CEO}	Collector Cut-off Current BC846 ($V_{CE}=60V$, $I_B=0$) BC847 ($V_{CE}=45V$, $I_B=0$) BC848, BC849 ($V_{CE}=30V$, $I_B=0$)	---	0.1	μA
		I_{EBO}	Emitter Cut-off Current ($V_{EB}=5V$, $I_C=0mA$)	---	0.1	μA
$H_{FE(1)}$	DC Current Gain ($V_{CE}=5V$, $I_C=2mA$) BC846A, 847A, 848A BC846B, 847B, 848B, 849B BC847C, BC848C, BC849C	110	220			
		200	450			
		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





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Ordering Information :

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

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