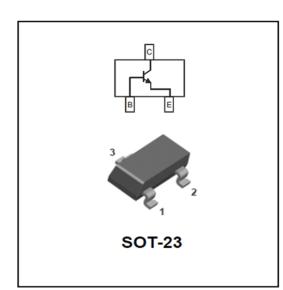




NPN Transistor



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Halogen free available upon request by adding suffix "HF"
- •Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic
 Insertion
- •NPN

Mechanical Data

• Package: SOT-23

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Marking:

BC849B	49B
BC849C	49C

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V _{CBO}	V	IC=100μA,IE=0	50
Collector-Emitter Voltage	V _{CEO}	V	IC =0.1mA,IB=0	45
Emitter-Base Voltage	V _{EBO}	V	IE=100μA,IC=0	5
Collector Current	I _C	Α		0.1
Collector Power Dissipation	Pc	mW		200
Operation Junction Temperature	Tj	°C		150
Storage Temperature	T _{stg}	°C		-55 to +150

■ Ordering Information (Example)

2 0 tuo m 3 m 0 m 0							
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
BC849B	F2	Approximate 0.009	3000	30000	120000	7" reel	
BC849C	F2	Approximate 0.009	3000	30000	120000	7" reel	





■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=100μA,IE=0	50	
Collector-emitter breakdown voltage	V _{CEO}	V	IC =0.1mA,IB=0	45	
Emitter-base breakdown voltage	V _{EBO}	V	IE=100μA,IC=0	5	
Collector-Base cut-off current	I _{CBO}	uA	V _{CB} =50 V ,IE=0		0.1
Collector-emitter cut-off current	I _{CEO}	uA	VCE=35 V , IB=0		0.1
Emitter-base cut-off current	I _{EBO}	uA	V _{EB} =3 V , IC=0		0.1
DC current gain	h _{FE}		VCE=5V,IC=1mA	200	1000
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=100mA,IB=5mA		0.3
Base-emitter saturation voltage	V _{BE(sat)*}	V	IC=100mA,IB=5mA		1

■Other Characteristics (Ta=25°C Unless otherwise specified)

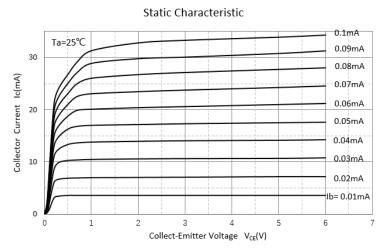
Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	fT	MHz	VCE= 5 V, IC= 10mA, f=30MHz	150	

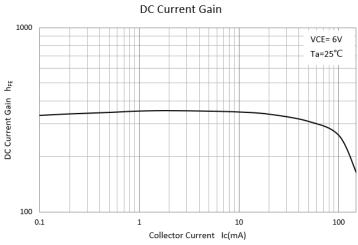
■ Classification of h_{FE}

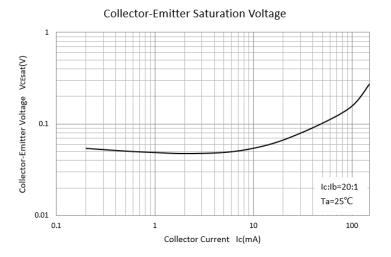
Rank	BC849B	BC849C
Range	200-450	420-1000

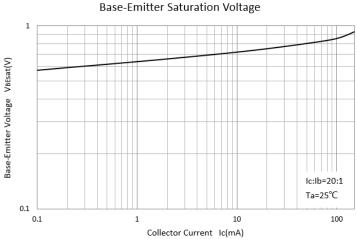


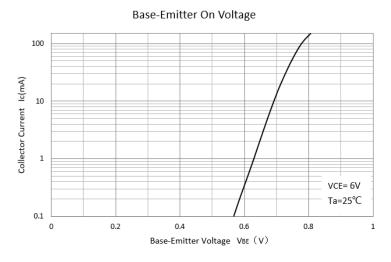
■ Characteristics(Typical)

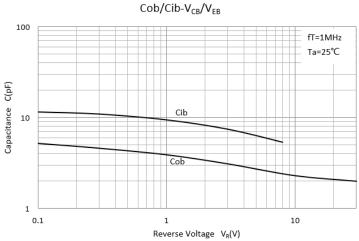










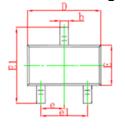


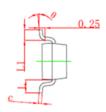


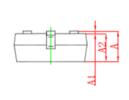




■SOT-23 Package Outline Dimensions

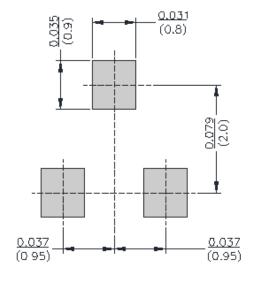






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
Symool	Min	Max	Min	Max	
A	0. 900	1. 150	0. 035	0.045	
A1	0.000	0. 100	0.000	0.004	
A2	0. 900	1.050	0. 035	0. 041	
b	0.300	0.500	0.012	0. 020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3.000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0. 055	
E1	2. 250	2. 550	0.089	0. 100	
e	0. 95	OTYP	0.03	7TYP	
el	1.800	2. 000	0.071	0. 079	
L	0.55	OREF	0. 022REF		
L1	0. 300	0. 500	0.012	0.020	
θ	0°	8°	0°	8*	

■SOT-23 Soldering Footprint







Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Yangjie manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MMBT-2369-TR BC546/116 BC557/116 BSW67A NJVMJD148T4G NTE123AP-10 NTE153MCP NTE16

NTE195A NTE92 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF SP000011176 2N2907A 2N3904
NS 2N5769 2SC2412KT146S CPH6501-TL-E MCH4021-TL-E MJE340 Jantx2N5416 US6T6TR NJL0281DG 732314D CPH3121-TL-E

CPH6021-TL-H 873787E IMZ2AT108 MMST8098T146 UMX21NTR MCH6102-TL-E NJL0302DG 30A02MH-TL-E NTE13 NTE26

NTE282 NTE323 NTE350 NTE81 STX83003-AP JANTX2N2920L JANSR2N2222AUB CMLT3946EG TR 2SA1371D-AE