



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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BC184B

SILICON

NPN TRANSISTOR



TO-92 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BC184B is a silicon NPN transistor designed for low level, low noise amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{CBO}	45
V_{CEO}	30
V_{EBO}	6.0
I_C	200
P_D	300
T_J, T_{stg}	-65 to +150
Θ_{JA}	417

UNITS

V
V
V
mA
mW
$^\circ\text{C}$
$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$)

SYMBOL TEST CONDITIONS

I_{CBO}	$V_{CB}=30\text{V}$
I_{EBO}	$V_{EB}=4.0\text{V}$
BV_{CBO}	$I_C=10\mu\text{A}$
BV_{CEO}	$I_C=2.0\text{mA}$
BV_{EBO}	$I_E=10\mu\text{A}$
$V_{CE(SAT)}$	$I_C=10\text{mA}, I_B=0.5\text{mA}$
$V_{CE(SAT)}$	$I_C=100\text{mA}, I_B=5.0\text{mA}$
$V_{BE(SAT)}$	$I_C=100\text{mA}, I_B=5.0\text{mA}$
$V_{BE(ON)}$	$V_{CE}=5.0\text{V}, I_C=10\mu\text{A}$
$V_{BE(ON)}$	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}$
$V_{BE(ON)}$	$V_{CE}=5.0\text{V}, I_C=2.0\text{mA}$
$V_{BE(ON)}$	$V_{CE}=5.0\text{V}, I_C=10\text{mA}$
h_{FE}	$V_{CE}=5.0\text{V}, I_C=10\mu\text{A}$
h_{FE}	$V_{CE}=5.0\text{V}, I_C=2.0\text{mA}$
h_{FE}	$V_{CE}=5.0\text{V}, I_C=100\text{mA}$
h_{fe}	$V_{CE}=5.0\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$
C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$
C_{ib}	$V_{EB}=0.5\text{V}, I_C=0, f=1.0\text{MHz}$
f_T	$V_{CE}=5.0\text{V}, I_C=10\text{mA}, f=100\text{MHz}$
NF	$V_{CE}=5.0\text{V}, I_C=200\mu\text{A}, R_G=2.0\text{k}\Omega, f=10\text{Hz to } 10\text{kHz}$

MIN

TYP

MAX

UNITS

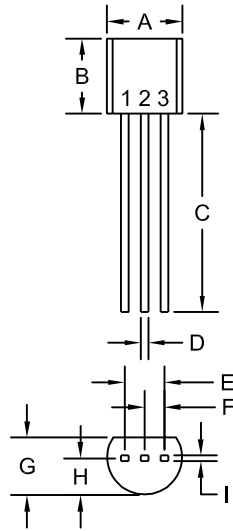
			15	nA
			15	nA
45				V
30				V
6.0				V
			0.25	V
			0.6	V
			1.2	V
	0.52			V
	0.55			V
0.55		0.7		V
	0.68			V
100				
250				
130				
240		500		
	3.0	5.0		pF
	9.5			pF
	280			MHz
		4.0		dB

R0 (11-October 2016)

BC184B
SILICON
NPN TRANSISTOR



TO-92 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

LEAD CODE:

- 1) Collector
- 2) Base
- 3) Emitter

MARKING: FULL PART NUMBER

R0 (11-October 2016)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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