imall

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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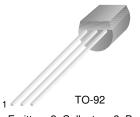
FAIRCHILD

SEMICONDUCTOR

BC184L

Silicon NPN Small Signal Transistor (Note 1)

BV_{CEO} = 30V (Min.)
h_{FE} = 130 (Min.) @V_{CE} = 5.0V, I_C = 100mA



1. Emitter 2. Collector 3. Base

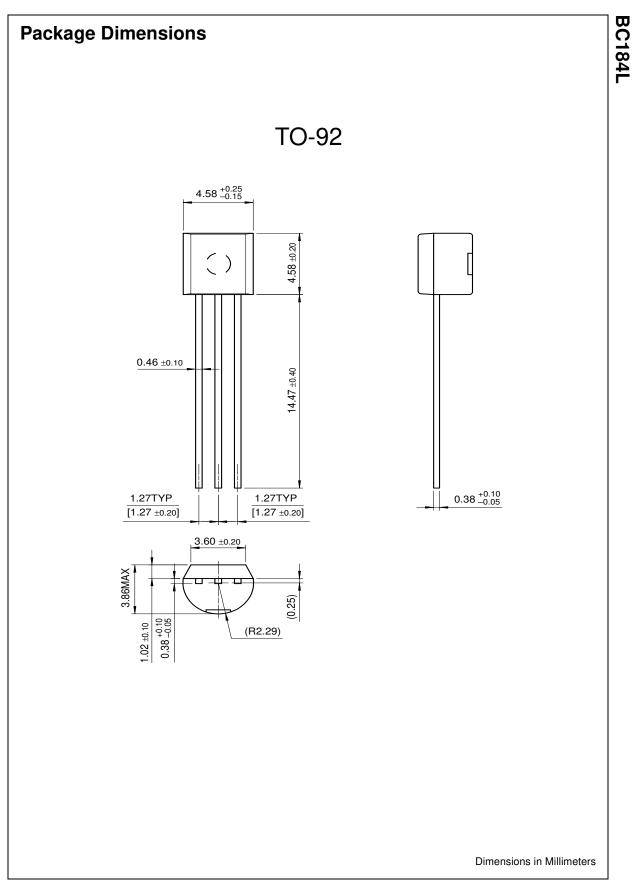
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	45	V	
V _{CEO}	Collector-Emitter Voltage	30	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current (DC)	500	mA	
P _C	Collector Dissipation (T _a =25°C) (Note 2, 3)	350	mW	
ТJ	Junction Temperature	150	°C	
Т _{STG}	Storage Temperature	- 55 ~ 150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Voltage	I _C = 10μA	45			V
BV _{CEO} Collector-Emitter Voltage		I _C = 2mA	30			V
BV _{EBO}	Emitter-Base Voltage	I _E = 10μA	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 30V			15	nA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 3V$			15	nA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_{C} = 10\mu A$ $V_{CE} = 5V, I_{C} = 100m A$	100 130			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{C} = 10$ mA, $I_{B} = 0.5$ mA $I_{C} = 100$ mA, $I_{B} = 5$ mA			0.6 0.25	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 100mA, I _B = 5mA			1.2	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = 5V, I_C = 2mA$	0.55		0.7	V
C _{OB}	Output Capacitance	V _{CE} = 10V, f = 1MHz			5	pF
f _T	Current gain Bandwidth Product	$V_{CE} = 5V, I_C = 10mA$ f = 100MHz	150			MHz
h _{FE}	Small Signal Current Gain	$V_{CE} = 5V, I_C = 2mA$ f = 1KHz	450		900	
NF	Noise Figure	$V_{CE} = 5V, I_C = 200mA$ $R_G = 2K\Omega, f = 1KHz$			4	dB

Notes:
These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.
These ratings are based on a maximum junction temperature of 150degrees C.



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition			
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