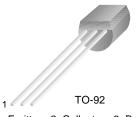
FAIRCHILD

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
с	Collector Current (DC)	500	mA
Pc	Collector Dissipation (T _a =25°C) (Note 2, 3)	350	mW
Г _Ј	Junction Temperature	150	°C
Г _{STG}	Storage Temperature	- 55 ~ 150	°C

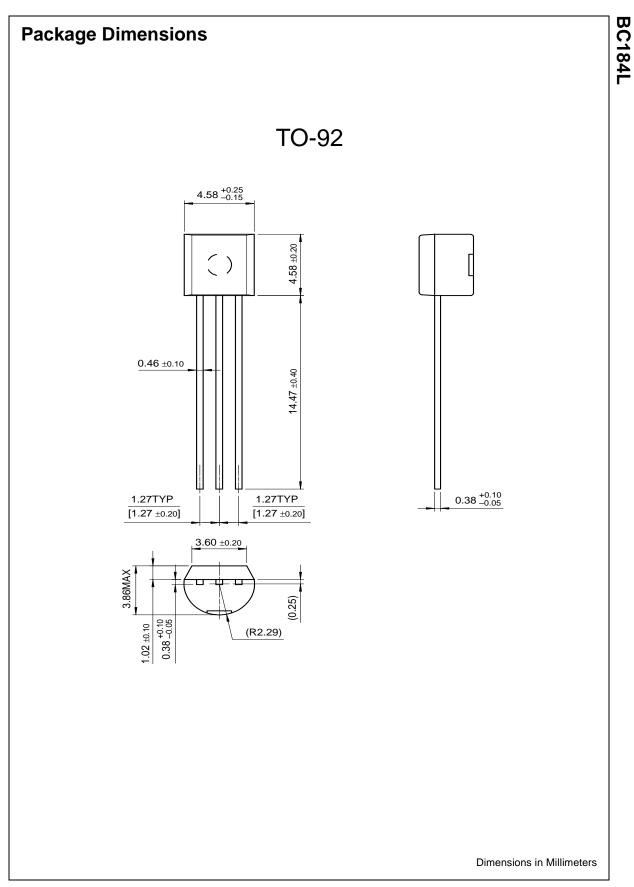
Electrical Characteristics T_C=25°C unless otherwise noted

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: 1. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

These ratings 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.

BC184L



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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