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Fairchild Semiconductor BC184L

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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
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

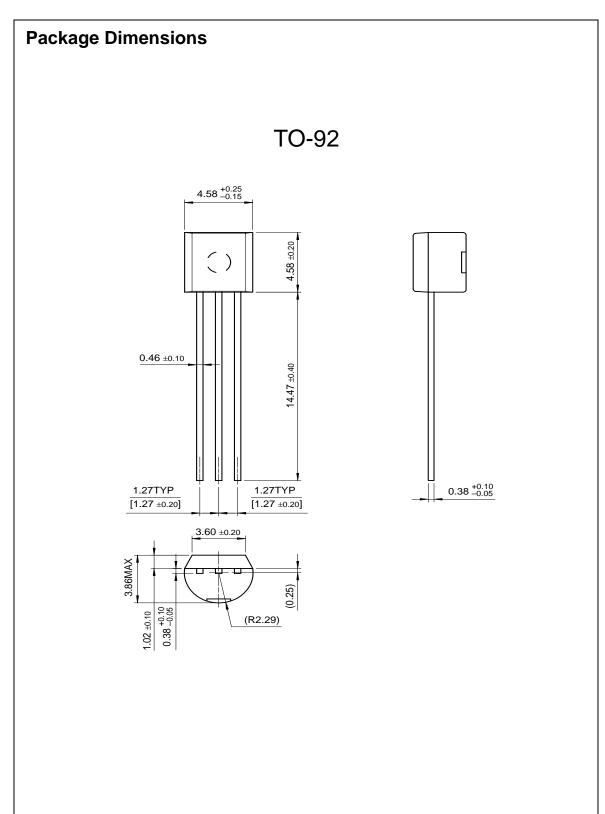
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Voltage	$I_C = 10\mu A$	45			V
BV _{CEO}	Collector-Emitter Voltage	I _C = 2mA	30			V
BV _{EBO}	Emitter-Base Voltage	$I_E = 10\mu A$	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	$V_{CE} = 5V, I_{C} = 10\mu A$ $V_{CE} = 5V, I_{C} = 100mA$	100 130			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 10 \text{mA}, I_B = 0.5 \text{mA}$ $I_C = 100 \text{mA}, I_B = 5 \text{mA}$			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 150 f = 100MHz			MHz	
h _{FE}	Small Signal Current Gain	$V_{CE} = 5V, I_{C} = 2mA$ 450 f = 1KHz		900		
NF	Noise Figure	$V_{CE} = 5V$, $I_{C} = 200$ mA $R_{G} = 2K\Omega$, $f = 1$ KHz			4	dB

- 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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Dimensions in Millimeters

Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of BC184L - TRANS NPN 30V 0.5A TO-92

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	Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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