Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Fairchild Semiconductor BC184LC

For any questions, you can email us directly: sales@integrated-circuit.com

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





BC184LC

Silicon NPN Small Signal Transistor (Note 1)

- BV_{CEO} = 30V (Min.)
- h_{FE} = 250 (Min.) @V_{CE} = 5.0V, I_C = 2mA



Absolute Maximum Ratings T_C=25°C unless otherwise noted

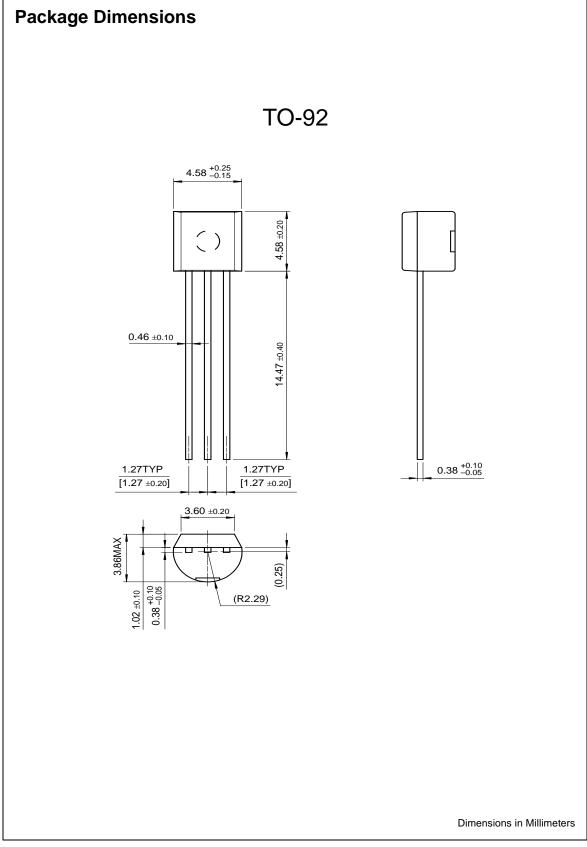
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	45	V	
V _{CEO}	Collector-Emitter Voltage	30	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current (DC)	200	mA	
P _C	Collector Dissipation (T _a =25°C) (Note 2, 3)	625	mW	
T _J	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 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 = 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	$V_{CE} = 5V, I_{C} = 10\mu A$ $V_{CE} = 5V, I_{C} = 2mA$ $V_{CE} = 5V, I_{C} = 100mA$	100 250 130			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 10 \text{mA}, I_B = 0.5 \text{mA}$ $I_C = 100 \text{mA}, I_B = 5 \text{mA}$			0.25 0.6	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
Сов	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	$V_{CE} = 5V$, $I_{C} = 200$ mA $R_{G} = 2K\Omega$, $f = 1$ KHz			4	dB

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





Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of BC184LC - TRANS NPN 30V 0.2A TO-92

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEx™	FACT™	ImpliedDisconnect™	PACMAN™	SPM™
ActiveArray™	FACT Quiet series™	ISOPLANAR™	POP TM	Stealth™
Bottomless™	FAST [®]	LittleFET™	Power247™	SuperSOT™-3
CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
EcoSPARK™	GTO™ .	MSX™	QT Optoelectronics™	TinyLogic™
E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
Across the board.	Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
The Power Franchise™		OPTOLOGIC [®]	SILENT SWITCHER®	VCXTM
Programmable Active Droop™		OPTOPLANAR™	SMART START™	

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

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.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

©2002 Fairchild Semiconductor Corporation Rev. I1