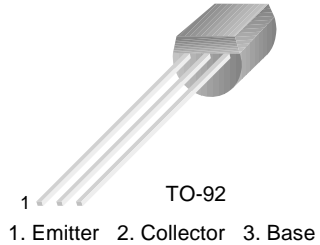


BC184LC

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 $T_C=25^\circ C$ 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 ($T_a=25^\circ C$) (Note 2, 3)	625	mW
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	- 55 ~ 150	$^\circ C$

Electrical Characteristics $T_C=25^\circ C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	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	$V_{CE} = 5V, I_C = 10\mu A$ $V_{CE} = 5V, I_C = 2mA$ $V_{CE} = 5V, I_C = 100mA$	100 250 130			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 10mA, I_B = 0.5mA$ $I_C = 100mA, I_B = 5mA$			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
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.
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.

Package Dimensions

TO-92



Dimensions in Millimeters

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Definition of Terms

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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.

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BC184LC

Silicon NPN Small Signal Transistor

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Features

Silicon NPN Small Signal Transistor

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

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Product status/pricing/packageing

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Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
BC184LC	Full Production	Full Production	\$0.0488	TO-92	3	BULK	Line 1: \$Y (Fairchild logo) &Z (Asm. Plant Code) &3 (3-Digit Date Code) Line 2: BC Line 3: 184LC
BC184LC_D27Z	Full Production	Full Production	N/A	TO-92	3	TAPE REEL	Line 1: \$Y (Fairchild logo) &Z (Asm. Plant Code) &3 (3-Digit Date Code) Line 2: BC Line 3: 184LC
BC184LC_L34Z	Lifetime Buy		N/A	TO-92	3	BULK	Line 1: \$Y (Fairchild logo) &Z (Asm. Plant Code) &3 (3-Digit Date Code) Line 2: BC Line 3: 184LC

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** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please

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Indicates product with Pb-free second-level interconnect. For more information [click here](#).

Package marking information for product BC184LC is available. [Click here for more information](#).

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Qualification Support

Click on a product for detailed qualification data

Product
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