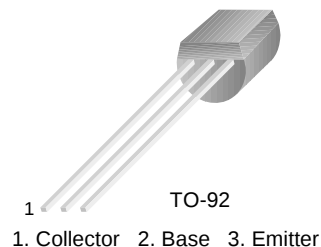


BC184C

BC184C

Silicon NPN Small Signal Transistor (Note 1)

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



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)	500	mA
P_C	Collector Dissipation ($T_a = 25^\circ C$) (Note 2, 3)	350	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

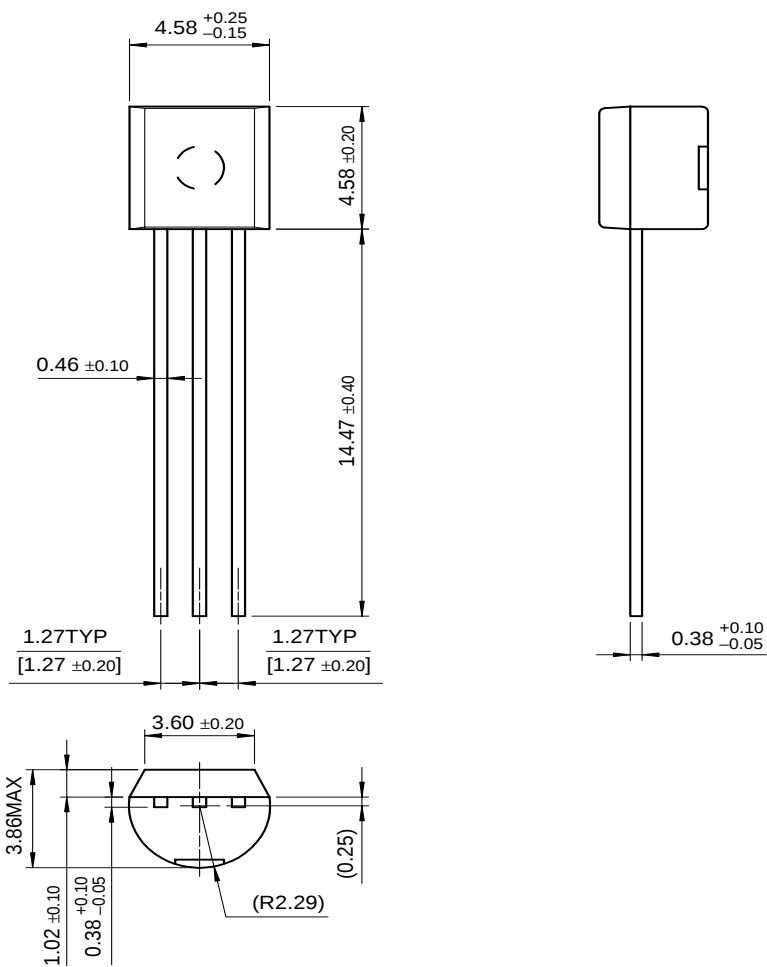
Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Voltage	$I_C = 10\mu A$	45			V
BV_{CEO}	Collector-Emitter Voltage	$I_C = 2mA$	30			V
BV_{EBO}	Emitter-Base Voltage	$I_E = 10\mu A$	5			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = 30V$			15	nA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = 4V$			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		800	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 10mA$, $I_B = 0.5mA$ $I_C = 100mA$, $I_B = 5mA$			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	$V_{CE} = 5V$, $I_C = 2mA$ $f = 1KHz$	240		900	
NF	Noise Figure	$V_{CE} = 5V$, $I_C = 200mA$ $R_G = 2K\Omega$, $f = 30Hz \sim 15KHz$ $V_{CE} = 5V$, $I_C = 200\mu A$, $f = 1KHz$			4 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