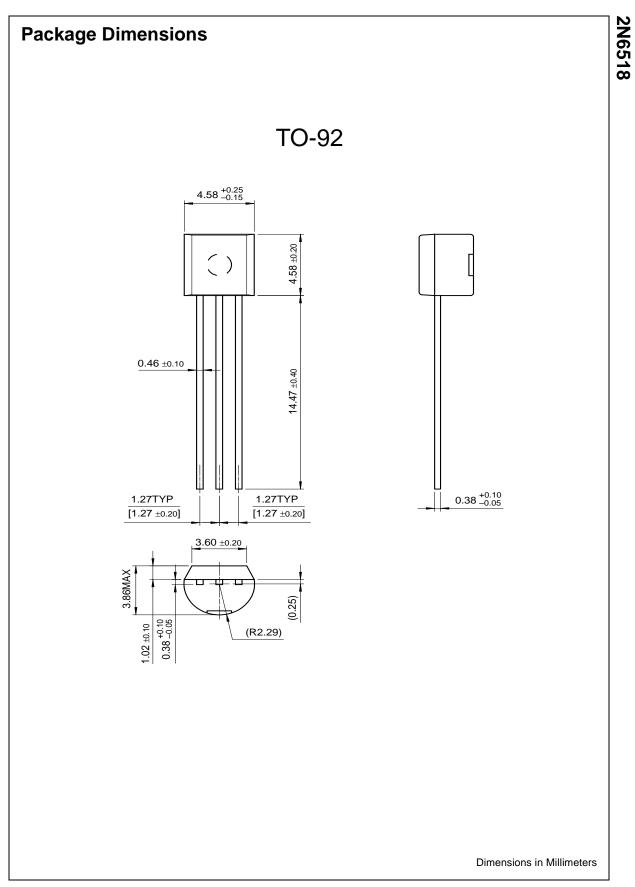


Symbol **Test Condition** Min. Max. Units Parameter * Collector-Base Breakdown Voltage I_C= -100μA, I_E=0 -250 V BV_{CBO} -250 V **BV**CEO Collector-Emitter Breakdown Voltage I_{C} = -1mA, I_{B} =0 $\mathsf{BV}_{\mathsf{EBO}}$ V Emitter-Base Breakdown Voltage $I_E = -10\mu A$, $I_C = 0$ -5 I_{CBO} Collector Cut-off Current V_{CB}= -150V, I_E=0 -50 nA Emitter Cut-off Current V_{EB}= -4V, I_C=0 -50 nA I_{EBO} $V_{CE} = -10V, I_{C} = -1mA$ h_{FE} * DC Current Gain 35 V_{CE}= -10V, I_C= -10mA 50 V_{CE}^{-} = -10V, I_{C}^{-} = -30mA 50 300 V_{CE}= -10V, I_C= -50mA 45 220 V_{CE}= -10V, I_C= -100mA 25 V_{CE} (sat) Collector-Emitter Saturation Voltage I_{C} = -10mA, I_{B} = -1mA -0.30 V I_C= -20mA, I_B= -2mA -0.35 V $I_{C} = -30 \text{mA}, I_{B} = -3 \text{mA}$ -0.50 V I_C= -50mA, I_B= -5mA -1 V I_{C} = -10mA, I_{B} = -1mA Base-Emitter Saturation Voltage -0.75 V V_{BE} (sat) I_C= -20mA, I_B= -2mA -0.85 V I_C = -30mA, I_B = -3mA -0.90 V Base-Emitter On Voltage V_{BE} (on) V_{CE}= -10V, I_C= -100mA -2 V V_{CE} = -20V, I_{C} = -10mA, f=20MHz f_{T} * Current Gain Bandwidth Product 40 200 MHz Cob **Output Capacitance** V_{CB}= -20V, I_E=0, f=1MHz 6 pF C_{EB} **Emitter-Base Capacitance** V_{EB}= -0.5V, I_C=0, f=1MHz 100 pF Turn On Time V_{BE} (off)= -2V, V_{CC}= -100V 200 ns tON I_{C} = -50mA, I_{B1} = -10mA V_{CC}= -100V, I_C= -50mA 3.5 Turn Off Time ns tOFF I_{B1}=I_{B2}=10mA * Pulse Test: Pulse Width≤300µs, Duty Cycle≤2%

©2002 Fairchild Semiconductor Corporation

2N6518

Electrical Characteristics Ta=25°C unless otherwise noted



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.

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.

Copyright © Each Manufacturing Company.

All Datasheets cannot be modified without permission.

This datasheet has been download from :

www.AllDataSheet.com

100% Free DataSheet Search Site.

Free Download.

No Register.

Fast Search System.

www.AllDataSheet.com