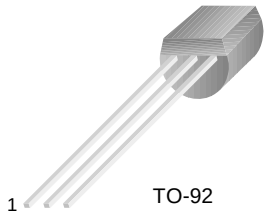
FAIRCHILD
SEMICONDUCTOR®

BF256A/BF256B/BF256C

N-Channel RF Amplifiers

- This device is designed for VHF/UHF amplifiers.
- Sourced from process 50.



TO-92

1. Gate 2. Source 3. Drain

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{DG}	Drain-Gate Voltage	30	V
V_{GS}	Gate-Source Voltage	-30	V
I_{GF}	Forward Gate Current	10	mA
P_D	Total Device Dissipation @T_A=25°C Derate above 25°C	350 2.8	mW mW/°C
T_{STG}	Operating and storage Temperature Range	- 55 ~ 150	°C

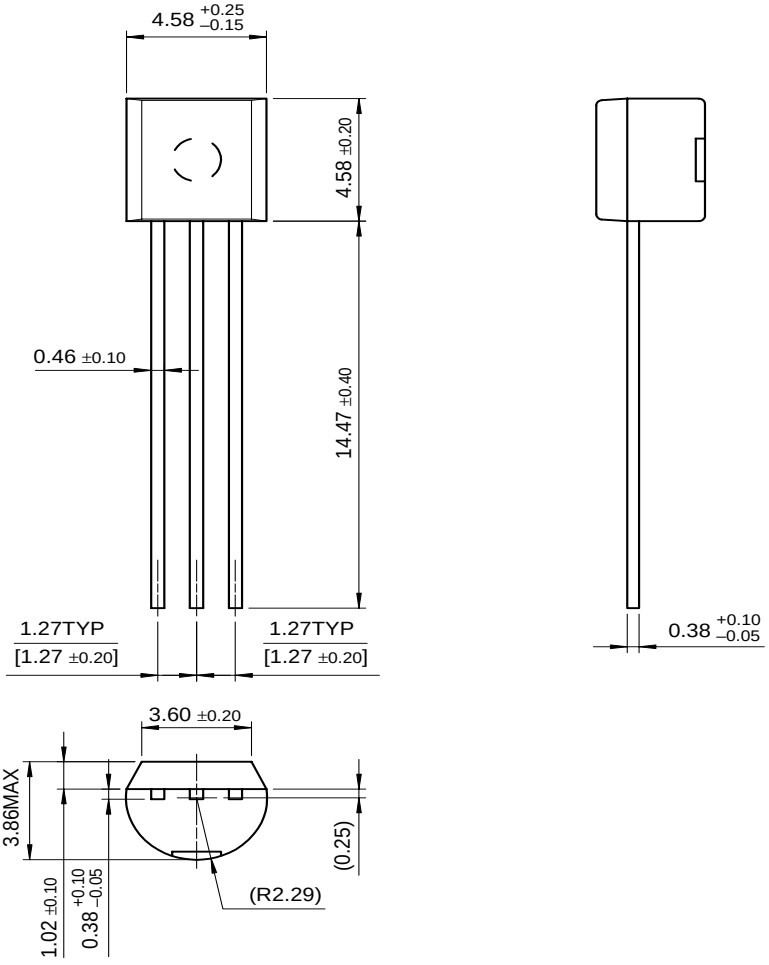
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
Off Characteristics					
$V_{(BR)GSS}$	Gate-Source Breakdown Voltage	V_{DS} = 0, I_G = 1μA	-30		V
V_{GS}	Gate-Source	V_{DS} = 15V, I_D = 200μA	-0.5	-7.5	V
V_{GS}(off)	Gate-Source Cutoff Voltage	V_{DS} = 15V, I_D = 10nA	-0.5	-8	V
I_{GSS}	Gate Reverse Current	V_{GS} = -20V, V_{GS} = 0		-5	nA
On Characteristics					
I_{DSS}	Zero-Gate Voltage Drain Current BF256A BF256B BF256C	V_{GS} = 15V, V_{GS} = 0	 3 6 11	 7 13 18	mA
Small Signal Characteristics					
gfs	Common Source Forward Transconductance	V_{DS} = 15V, V_{GS} = 0, f = 1KHz	4.5		mmhos

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Package Dimensions

TO-92



Dimensions in Millimeters

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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.

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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.

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