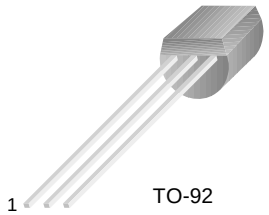
FAIRCHILD
SEMICONDUCTOR®

BF245A/BF245B/BF245C

N-Channel 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
$T_{J,}$ T_{STG}	Operating and Storage Junction Temperature Range	- 55 ~ 150	°C

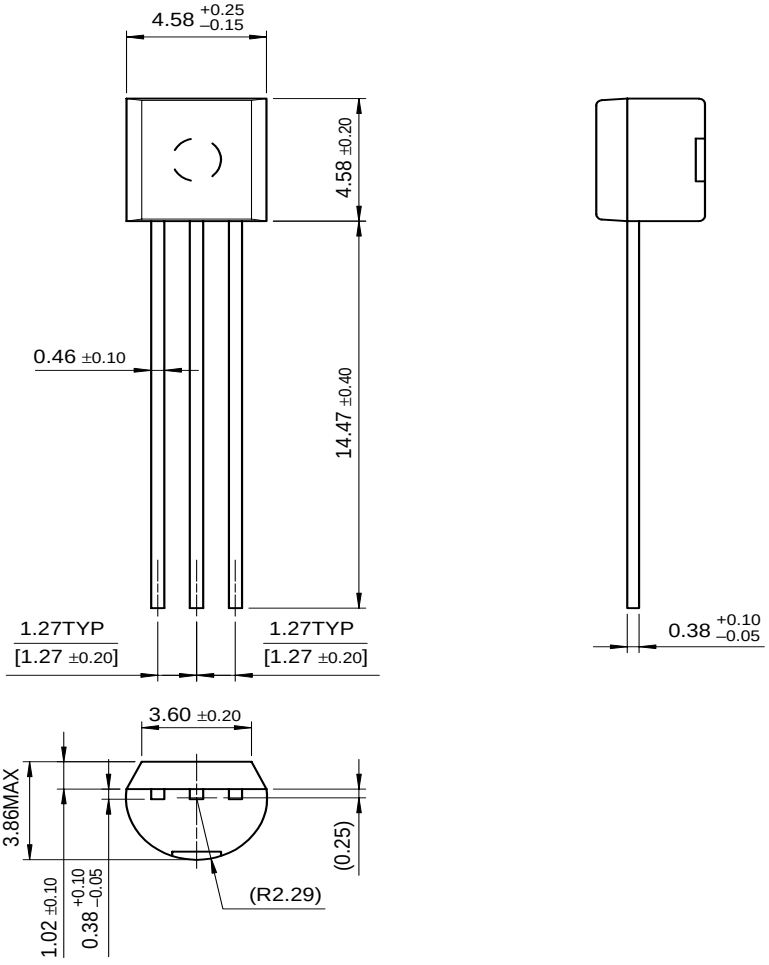
Electrical Characteristics T_a=25°C unless otherwise noted

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	BF245A	V_{DS} = 15V, I_D = 200μA	-0.4	-2.2	V
		BF245B		-1.6	-3.8	
		BF245C		-3.2	-7.5	
V_{GS}(off)	Gate-Source Cut-off 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					
		BF245A	V_{GS} = 15V, V_{GS} = 0	2	6.5	mA
		BF245B		6	15	
		BF245C		12	25	
On Characteristics						
g_{fs}	Common Source Forward Transconductance		V_{GS} = 15V, V_{GS} = 0, f = 1KHz	3	6.5	mmhos

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Package Dimensions

TO-92



Dimensions in Millimeters

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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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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.
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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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