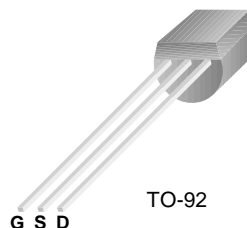


## BF245A/BF245B/BF245C

### N-Channel Amplifiers

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



### Absolute Maximum Ratings $T_C=25^\circ\text{C}$ unless otherwise noted

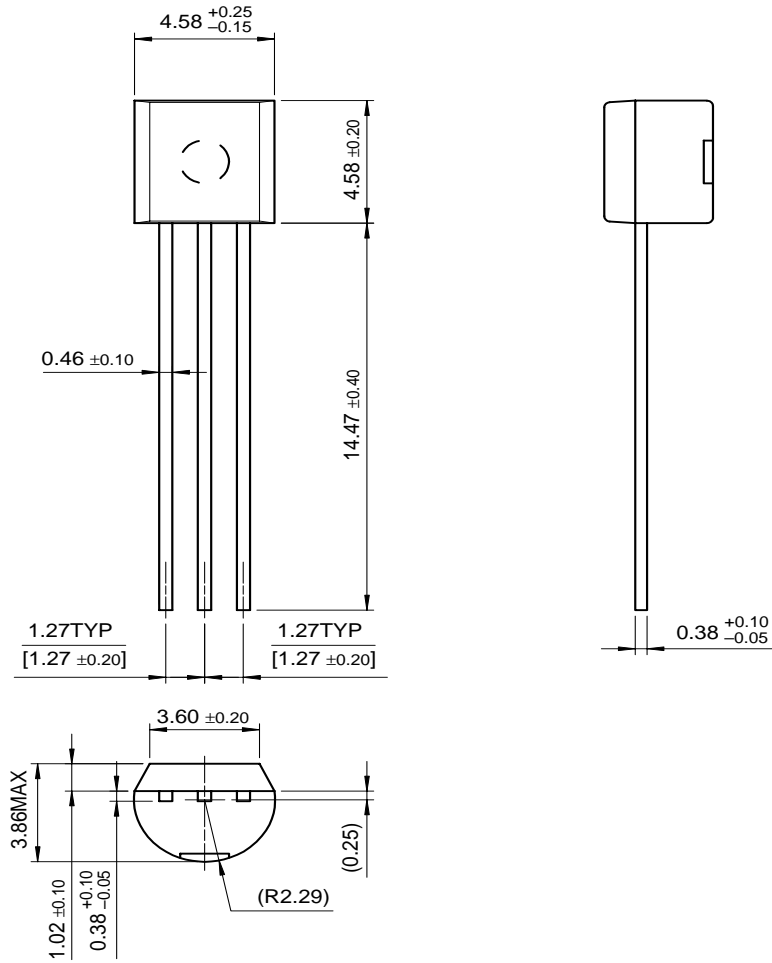
Symbol	Parameter	Value	Units
$V_{DG}$	Drain-Gate Voltage	30	V
$V_{GS}$	Gate-Source Voltage	30	V
$I_{GF}$	Forward Gate Current	10	mA
$P_D$	Total Device Dissipation @ $T_A=25^\circ\text{C}$ Derate above $25^\circ\text{C}$	350 2.8	mW mW/ $^\circ\text{C}$
$T_J, T_{STG}$	Operating and Storage Junction Temperature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

### Electrical Characteristics $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
<b>Off Characteristics</b>						
$V_{(BR)GSS}$	Gate-Source Breakdown Voltage	$V_{DS} = 0, I_G = 1\mu\text{A}$	30			V
$V_{GS}$	Gate-Source	$V_{DS} = 15\text{V}, I_D = 200\mu\text{A}$	0.4 1.6 3.2		2.2 3.8 7.5	V
$V_{GS(off)}$	Gate-Source Cut-off Voltage	$V_{DS} = 15\text{V}, I_D = 10\text{nA}$	-0.5		-8	V
$I_{GSS}$	Gate Reverse Current	$V_{GS} = 20\text{V}, V_{DS} = 0$			5	nA
<b>On Characteristics</b>						
$I_{DSS}$	Zero-Gate Voltage Drain Current	$V_{GS} = 15\text{V}, V_{DS} = 0$	2 6 12		6.5 15 25	mA
$g_{fs}$	Common Source Forward Transconductance	$V_{GS} = 15\text{V}, V_{DS} = 0, f = 1\text{KHz}$	3		6.5	$\text{m}\Omega$

# Package Dimensions

## TO-92



BF245A/BF245B/BF245C

Dimensions in Millimeters

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FACT <sup>TM</sup>	MicroPak <sup>TM</sup>	Quiet Series <sup>TM</sup>	UHC <sup>TM</sup>	
FACT Quiet Series <sup>TM</sup>	MICROWIRE <sup>TM</sup>	SLIENT SWITCHER <sup>®</sup>	UltraFET <sup>®</sup>	

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## PRODUCT STATUS DEFINITIONS

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