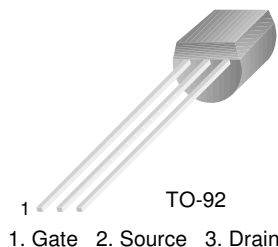


BF245A/BF245B/BF245C

N-Channel Amplifiers

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



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

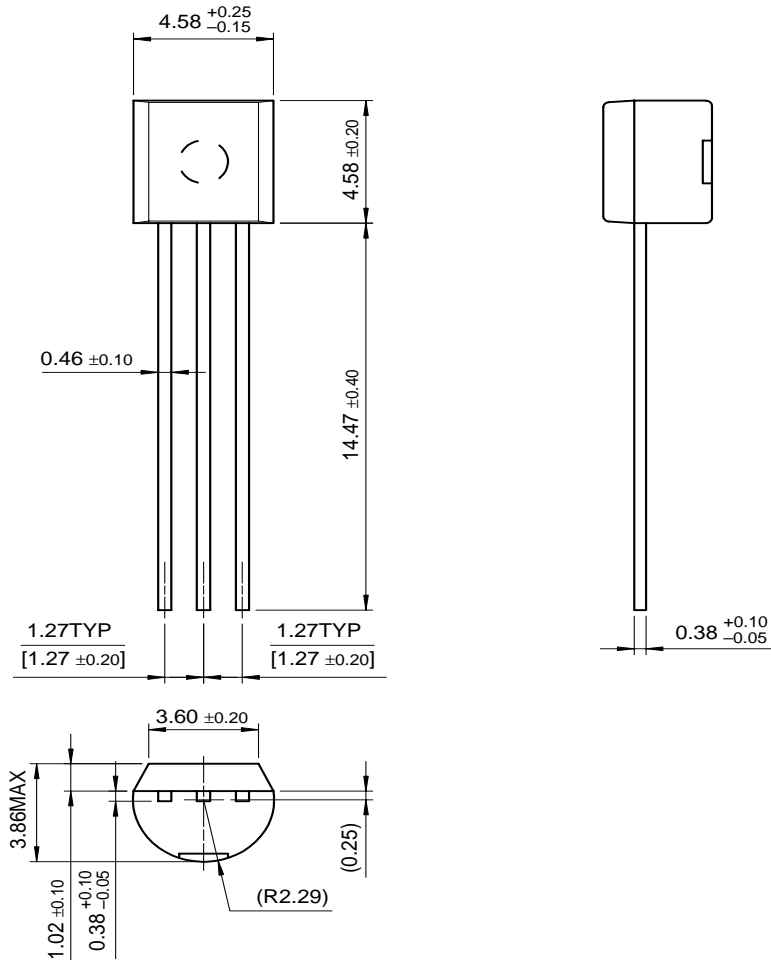
| Symbol | Parameter | Value | Units |
|----------------|--|------------|----------------------------|
| V_{DG} | Drain-Gate Voltage | 30 | V |
| V_{GS} | Gate-Source Voltage | -30 | V |
| I_{GF} | Forward Gate Current | 10 | mA |
| P_D | Total Device Dissipation @ $T_A=25^\circ\text{C}$ Derate above 25°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 $T_a=25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Max. | Units |
|----------------------------|--|--|----------------------|----------------------|-------|
| Off Characteristics | | | | | |
| $V_{(BR)GSS}$ | Gate-Source Breakdown Voltage | $V_{DS} = 0, I_G = 1\mu\text{A}$ | -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 |
| On Characteristics | | | | | |
| I_{DSS} | Zero-Gate Voltage Drain Current | $V_{GS} = 15\text{V}, V_{GS} = 0$ | 2 6 12 | 6.5 15 25 | mA |
| On Characteristics | | | | | |
| g_{fs} | Common Source Forward Transconductance | $V_{GS} = 15\text{V}, V_{GS} = 0, f = 1\text{KHz}$ | 3 | 6.5 | mmhos |

Package Dimensions

TO-92



BF245A/BF245B/BF245C

Dimensions in Millimeters

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| EnSigna TM | I ² C TM | OCX TM | RapidConfigure TM | UHC TM |
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Definition of Terms

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