

## BF256A/BF256B/BF256C

### N-Channel RF Amplifiers

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



1 TO-92  
 1. Gate 2. Source 3. Drain

### 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 $25^\circ\text{C}$	350 2.8	mW mW/ $^\circ\text{C}$
$T_{STG}$	Operating and storage 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
<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	$V_{DS} = 15\text{V}, I_D = 200\mu\text{A}$	-0.5	-7.5	V
$V_{GS(off)}$	Gate-Source Cutoff 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	$V_{GS} = 15\text{V}, V_{GS} = 0$	3	7	mA
	BF256A		6	13	
	BF256B		11	18	
	BF256C				
<b>Small Signal Characteristics</b>					
gfs	Common Source Forward Transconductance	$V_{DS} = 15\text{V}, V_{GS} = 0, f = 1\text{KHz}$	4.5		mmhos



# TO-92

