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# BF256A/BF256B/BF256C

# N-Channel RF Amplifiers • This device is designed for VHF/UHF amplifiers.

- Sourced from process 50.



1. Gate 2. Source 3. Drain

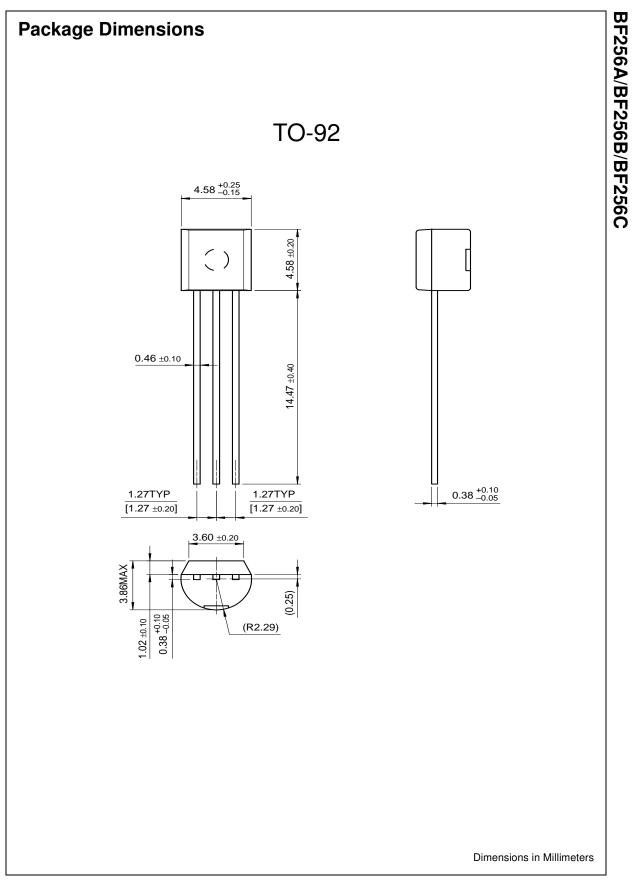
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## Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>DG</sub>	Drain-Gate Voltage	30	V
V <sub>GS</sub>	Gate-Source Voltage	-30	V
I <sub>GF</sub>	Forward Gate Current	10	mA
P <sub>D</sub>	Total Device Dissipation @T <sub>A</sub> =25°C Derate above 25°C	350 2.8	mW mW/°C
T <sub>STG</sub>	Operating and storage Temperature Range	- 55 ~ 150	°C

### Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
Off Chara	cteristics	·		•	
V <sub>(BR)GSS</sub>	Gate-Source Breakdown Voltage	$V_{DS} = 0, I_{G} = 1\mu A$	-30		V
V <sub>GS</sub>	Gate-Source	V <sub>DS</sub> = 15V, I <sub>D</sub> = 200µA	-0.5	-7.5	V
V <sub>GS</sub> (off)	Gate-Source Cutoff Voltage	V <sub>DS</sub> = 15V, I <sub>D</sub> = 10nA	-0.5	-8	V
I <sub>GSS</sub>	Gate Reverse Current	$V_{GS} = -20V, V_{GS} = 0$		-5	nA
On Chara	cteristics	·		•	•
I <sub>DSS</sub>	Zero-Gate Voltage Drain Current BF256A BF256B BF256C	V <sub>GS</sub> = 15V, V <sub>GS</sub> = 0	3 6 11	7 13 18	mA
Small Sig	nal Characteristics	·		•	•
gfs	Common Source Forward Transconductance	V <sub>DS</sub> = 15V, V <sub>GS</sub> = 0, f = 1KHz	4.5		mmho



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ActiveArrayTMFABottomlessTMFACoolFETTMFA $CROSSVOLT$ TMFFDOMETMGiEcoSPARKTMGiE^2CMOSTMHiEnSignaTMI20Across the board. ArrThe Power Franchise	е™	ImpliedDisconnect <sup>™</sup> ISOPLANAR <sup>™</sup> LittleFET <sup>™</sup> MicroFET <sup>™</sup> MiCrOPak <sup>™</sup> MICROWIRE <sup>™</sup> MSX <sup>™</sup> MSXPro <sup>™</sup> OCX <sup>™</sup> OCXPro <sup>™</sup> OCXPro <sup>™</sup> OPTOLOGIC <sup>®</sup>	PACMAN <sup>™</sup> POP <sup>™</sup> Power247 <sup>™</sup> PowerTrench <sup>®</sup> QFET <sup>™</sup> QS <sup>™</sup> QT Optoelectronics <sup>™</sup> Quiet Series <sup>™</sup> RapidConfigure <sup>™</sup> RapidConnect <sup>™</sup> SILENT SWITCHER <sup>®</sup>	SPM <sup>™</sup> Stealth <sup>™</sup> SuperSOT <sup>™</sup> -3 SuperSOT <sup>™</sup> -6 SuperSOT <sup>™</sup> -8 SyncFET <sup>™</sup> TinyLogic <sup>®</sup> TruTranslation <sup>™</sup> UHC <sup>™</sup> UltraFET <sup>®</sup> VCX <sup>™</sup>
Programmable Active Droop™		OPTOPLANAR™	SMART START™	VOA

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