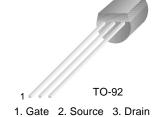


## BF256A/BF256B/BF256C

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

- Sourced from process 50.



## **Absolute Maximum Ratings** T<sub>a</sub>=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	350	mW
	Derate above 25°C	2.8	mW/°C
T <sub>STG</sub>	Operating and storage Temperature Range	- 55 ~ 150	°C

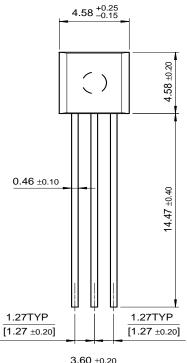
### Electrical Characteristics T<sub>a</sub>=25°C unless otherwise noted

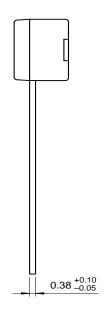
Symbol	Parameter	Test Condition	Min.	Max.	Units
Off Chara	cteristics		•	•	•
V <sub>(BR)GSS</sub>	Gate-Source Breakdown Voltage	$V_{DS} = 0, I_{G} = 1\mu A$	-30		V
V <sub>GS</sub>	Gate-Source	$V_{DS} = 15V, I_D = 200\mu A$	-0.5	-7.5	V
V <sub>GS</sub> (off)	Gate-Source Cutoff Voltage	V <sub>DS</sub> = 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	$V_{DS} = 15V, V_{GS} = 0, f = 1KHz$	4.5		mmho

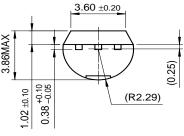
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## **Package Dimensions**

TO-92







Dimensions in Millimeters

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Bottomless™	FAST <sup>®</sup>	LittleFET™	Power247™	SuperSOT™-3
CoolFET™	FASTr™	MicroFET™	PowerTrench <sup>®</sup>	SuperSOT™-6
$CROSSVOLT^{TM}$	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic <sup>®</sup>
E <sup>2</sup> CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I <sup>2</sup> C <sup>TM</sup>	$OCX^{TM}$	RapidConfigure™	UHC™
Across the board. Around the world.™		OCXPro™	RapidConnect™	UltraFET <sup>®</sup>
The Power Franchise™		OPTOLOGIC <sup>®</sup>	SILENT SWITCHER®	VCX™
Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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#### **Definition of Terms**

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