

# N-Channel JFET RF Amplifier

### **BF256B**

#### **Features**

- This Device is Designed for VHF / UHF Amplifiers
- Sourced from Process 50
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

#### **ABSOLUTE MAXIMUM RATINGS**

Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

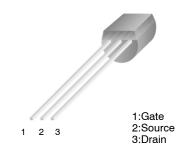
Symbol	Parameter	Value	Unit
$V_{DG}$	Drain-Gate Voltage	30	V
V <sub>GS</sub>	V <sub>GS</sub> Gate-Source Voltage		V
I <sub>GF</sub>	I <sub>GF</sub> Forward Gate Current		mA
T <sub>J</sub> , T <sub>STG</sub>	Operating and Storage Temperature Range	-55 to 150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

#### THERMAL CHARACTERISTICS

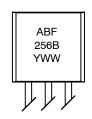
Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

Symbol	Parameter	Value	Unit
$P_{D}$	Total Device Dissipation at $T_A = 25^{\circ}C$	350	mW
	Derate Above 25°C	2.8	mW/°C



TO-92-3 CASE 135AN

#### **MARKING DIAGRAM**



A BF256B Y WW Assembly SiteSpecific Device CodeYear of Production

= Work Week Number

#### **ORDERING INFORMATION**

Device	Package	Shipping
BF256B	TO-92-3	10,000 Bulk/Bag

#### **ELECTRICAL CHARACTERISTICS** Values are at $T_A = 25$ °C unless otherwise noted.

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>(BR)GSS</sub>	Gate-Source Breakdown Voltage	$V_{DS} = 0$ , $I_{G} = 1 \mu A$	-30	-	V
$V_{GS}$	Gate-Source Voltage	$V_{DS} = 15 \text{ V}, I_D = 200 \mu\text{A}$	-0.5	-7.5	V
V <sub>GS</sub> (off)	Gate-Source Cut-Off Voltage	V <sub>DS</sub> = 15 V, I <sub>D</sub> = 10 nA	-0.5	-8.0	V
I <sub>GSS</sub>	Gate Reverse Current	$V_{GS} = -20 \text{ V}, V_{DS} = 0$	_	-5	nA
I <sub>DSS</sub>	Zero-Gate Voltage Drain Current	V <sub>DS</sub> = 15 V, V <sub>GS</sub> = 0	6	13	mA
gfs	Common Source Forward Transconductance	V <sub>DS</sub> = 15 V, V <sub>GS</sub> = 0,f = 1 kHz	4.5	-	mmhos

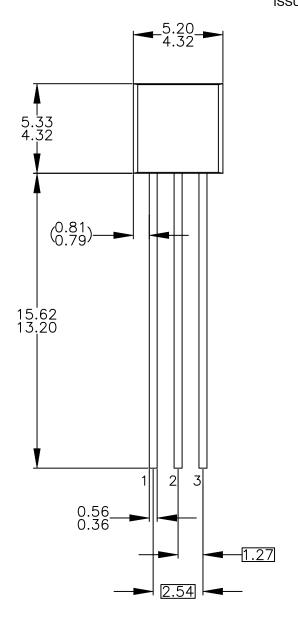
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

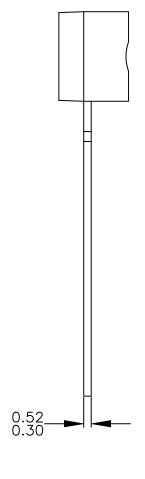
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#### TO-92 3 4.825x4.76 CASE 135AN ISSUE O

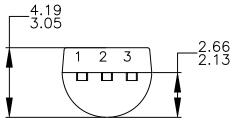
**DATE 31 JUL 2016** 





NOTES: UNLESS OTHERWISE SPECIFIED

- A) DRAWING WITH REFERENCE TO JEDEC TO-92 RECOMMENDATIONS.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DRAWING CONFORMS TO ASME Y14.5M-2009.



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