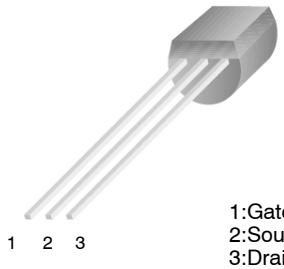
N-Channel JFET RF Amplifier

BF256B



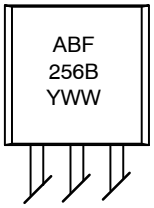
1:Gate
2:Source
3:Drain

TO−92−3
CASE 135AN

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

MARKING DIAGRAM



A	= Assembly Site
BF256B	= Specific Device Code
Y	= Year of Production
WW	= Work Week Number

ABSOLUTE MAXIMUM RATINGS

Values are at T_A = 25°C unless otherwise noted.

Symbol	Parameter	Value	Unit
V_{DG}	Drain−Gate Voltage	30	V
V_{GS}	Gate−Source Voltage	−30	V
I_{GF}	Forward Gate Current	10	mA
T_J, T_{STG}	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°C unless otherwise noted.

Symbol	Parameter	Value	Unit
P_D	Total Device Dissipation at T_A = 25°C	350	mW
	Derate Above 25°C	2.8	mW/°C

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
$V_{(BR)GSS}$	Gate−Source Breakdown Voltage	V_{DS} = 0, I_G = 1 μA	−30	−	V
V_{GS}	Gate−Source Voltage	V_{DS} = 15 V, I_D = 200 μA	−0.5	−7.5	V
V_{GS}(off)	Gate−Source Cut−Off Voltage	V_{DS} = 15 V, I_D = 10 nA	−0.5	−8.0	V
I_{GSS}	Gate Reverse Current	V_{GS} = −20 V, V_{DS} = 0	−	−5	nA
I_{DSS}	Zero−Gate Voltage Drain Current	V_{DS} = 15 V, V_{GS} = 0	6	13	mA
gfs	Common Source Forward Transconductance	V_{DS} = 15 V, V_{GS} = 0,f = 1 kHz	4.5	−	mmhos

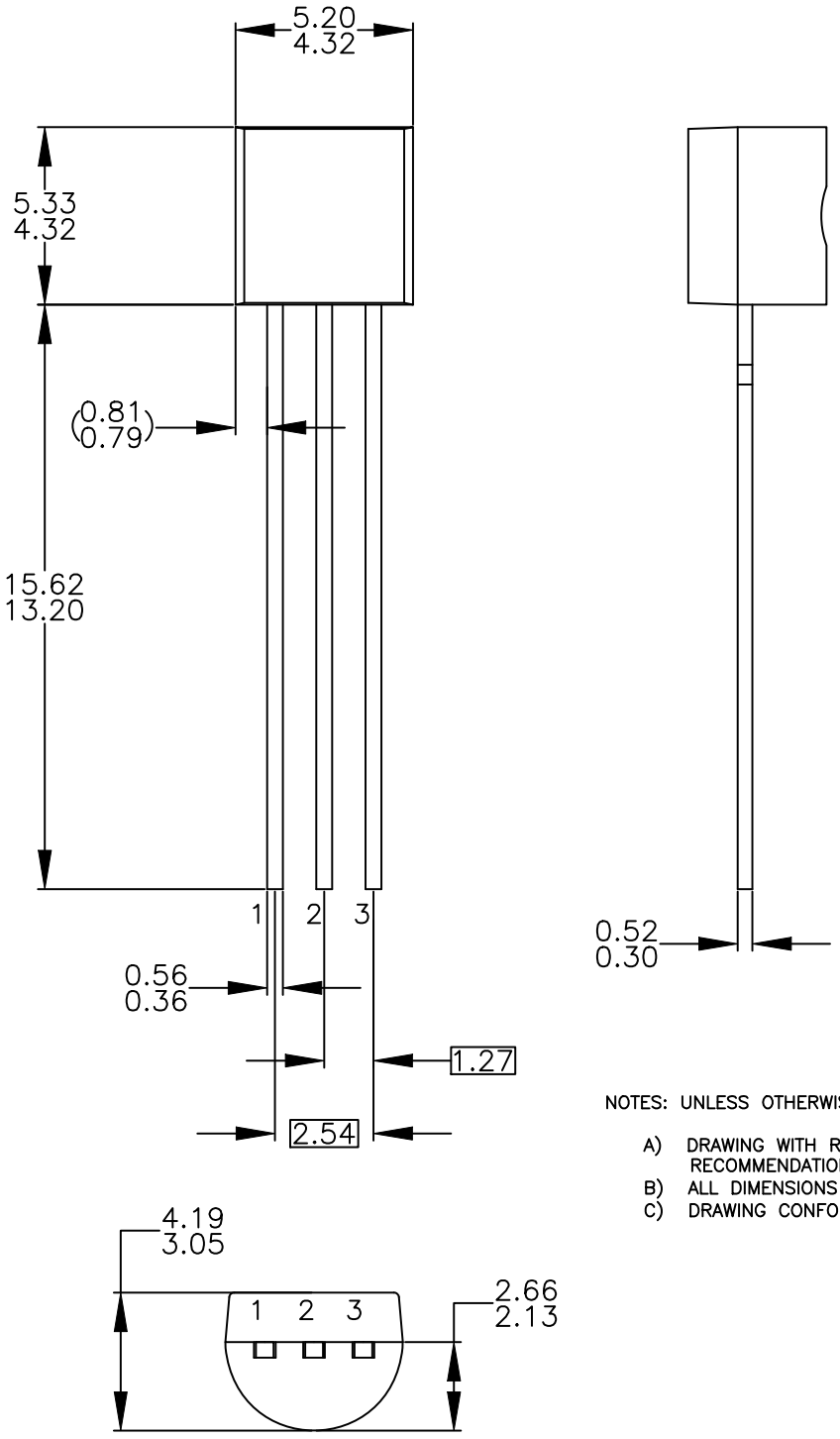
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

ON Semiconductor®

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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PUBLICATION ORDERING INFORMATION

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