

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 $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Value	Unit
V_{DG}	Drain-Source 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	$^\circ\text{C}$

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 $T_A = 25^\circ\text{C}$ unless otherwise noted.

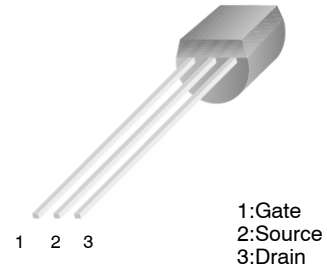
Symbol	Parameter	Value	Unit
P_D	Total Device Dissipation at $T_A = 25^\circ\text{C}$	350	mW
	Derate Above 25°C	2.8	mW/ $^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

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

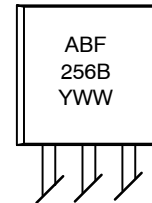
Symbol	Parameter	Conditions	Min	Max	Unit
$V_{(BR)GSS}$	Gate-Source Breakdown Voltage	$V_{DS} = 0, I_G = 1 \mu\text{A}$	-30	-	V
V_{GS}	Gate-Source Voltage	$V_{DS} = 15 \text{ V}, I_D = 200 \mu\text{A}$	-0.5	-7.5	V
$V_{GS(off)}$	Gate-Source Cut-Off Voltage	$V_{DS} = 15 \text{ V}, I_D = 10 \text{ nA}$	-0.5	-8.0	V
I_{GSS}	Gate Reverse Current	$V_{GS} = -20 \text{ V}, V_{DS} = 0$	-	-5	nA
I_{DSS}	Zero-Gate Voltage Drain Current	$V_{DS} = 15 \text{ V}, V_{GS} = 0$	6	13	mA
g_{fs}	Common Source Forward Transconductance	$V_{DS} = 15 \text{ V}, V_{GS} = 0, f = 1 \text{ kHz}$	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.



TO-92-3
CASE 135AN

MARKING DIAGRAM



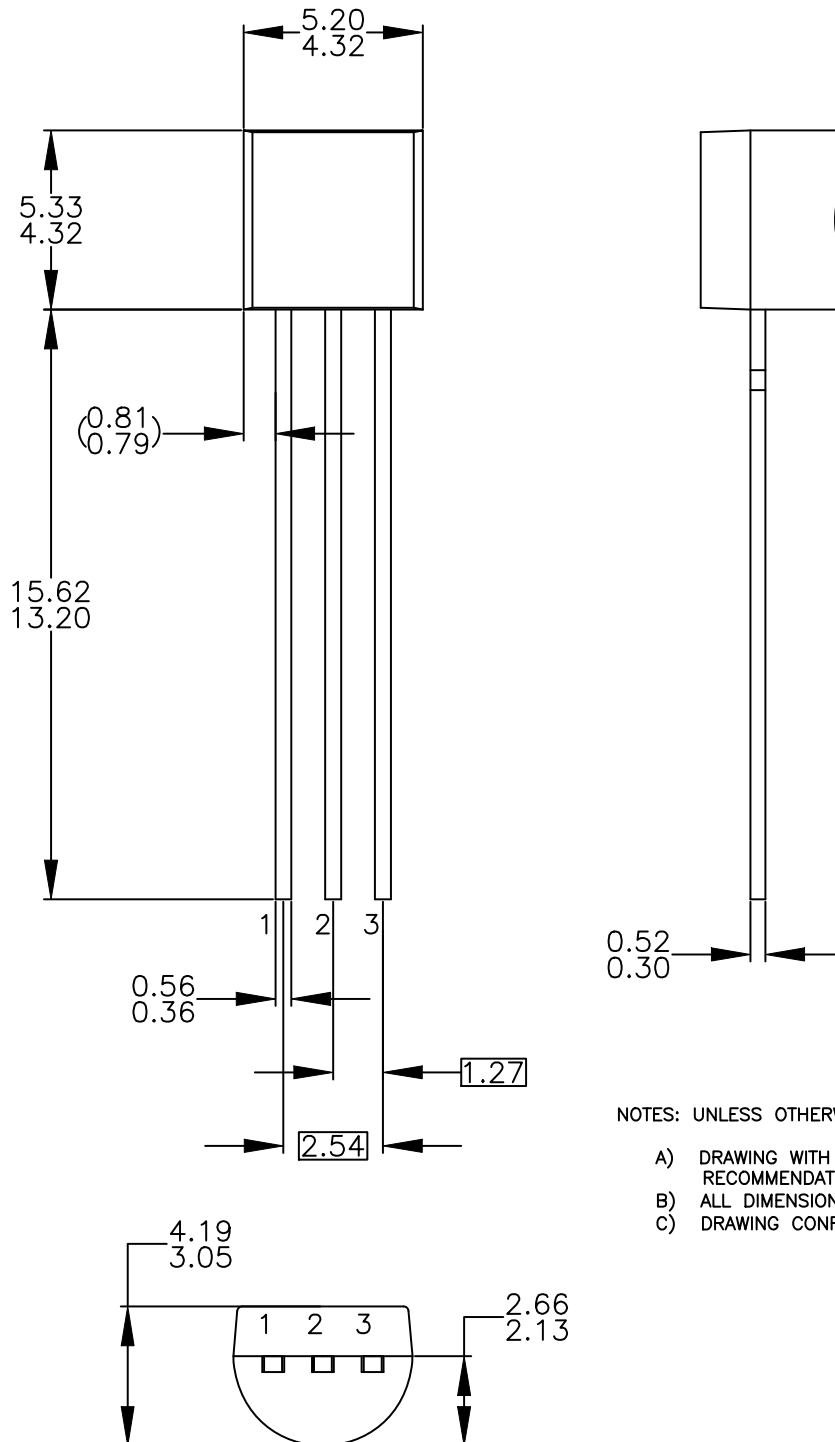
A = Assembly Site
 BF256B = Specific Device Code
 Y = Year of Production
 WW = Work Week Number

ORDERING INFORMATION

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

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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