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BF256A is a Preferred Device

JFET - General Purpose

N–Channel

N–Channel Junction Field Effect Transistor designed for VHF and UHF applications.

- Low Cost TO–92 Type Package
- Forward Transfer Admittance, $Y_{fs} = 4.5$ mmhos (Min)
- Transfer Capacitance $C_{\text{rss}} = 0.7$ (Typ)
- Power Gain at f = 800 MHz, Typ. = 11 dB

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	30	Vdc
Drain-Gate Voltage	V _{DG}	30	Vdc
Gate-Source Voltage	V _{GS}	30	Vdc
Forward Gate Current	I _{G(f)}	10	mAdc
Total Device Dissipation @ T _A = 25°C Derate above 25°C	PD	360 2.88	mW mW/°C
Operating and Storage Channel Temperature Range	T _{channel} , T _{stg}	-65 to +150	°C

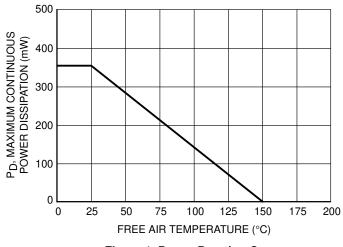
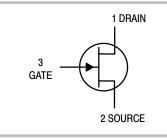


Figure 1. Power Derating Curve



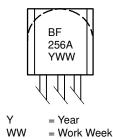
ON Semiconductor[™]

http://onsemi.com





MARKING DIAGRAMS



ORDERING INFORMATION

Device	Package	Shipping
BF256A	TO-92	5000 Units/Box

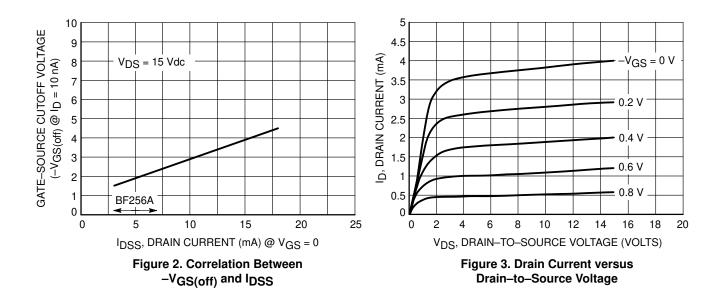
Preferred devices are recommended choices for future use and best overall value.

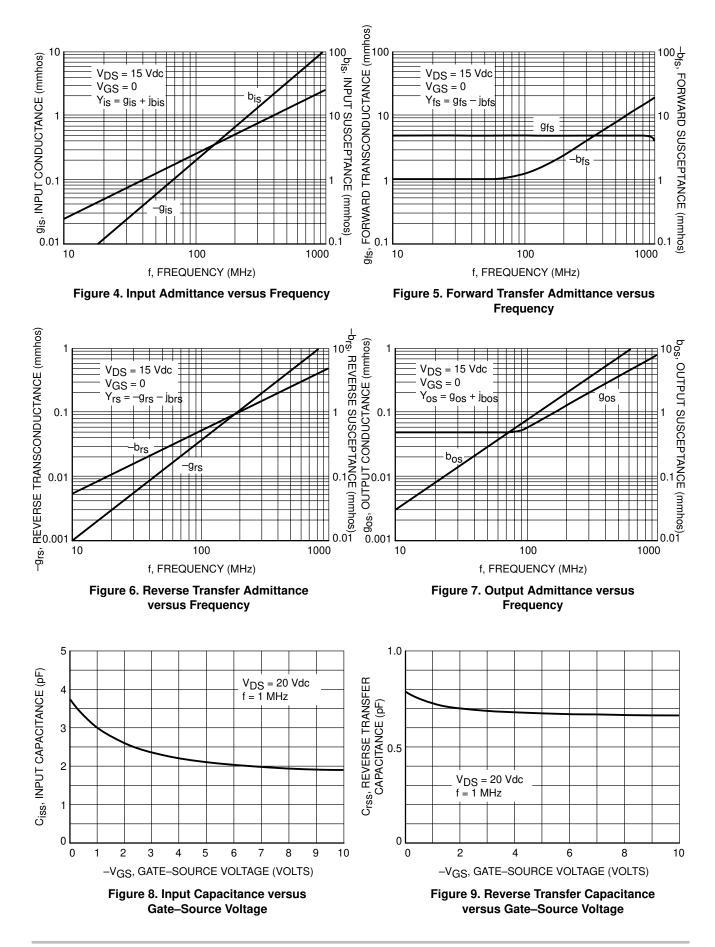
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic		Symbol	Min	Тур	Max	Unit	
OFF CHARACTERISTICS							
Gate-Source Breakdown Voltage	$(-I_{G} = -1.0 \ \mu \text{Adc}, \ V_{DS} = 0)$	-V(BR)GSS	30	-	—	Vdc	
Gate-Source Voltage	$(V_{DS} = 15 \text{ Vdc}, I_D = 200 \ \mu\text{A})$	-V _{GS}	0.5	—	7.5	Vdc	
Gate Reverse Current	$(-V_{GS} = 20 \text{ Vdc}, V_{DS} = 0)$	-I _{GSS}	—	—	5.0	nAdc	
ON CHARACTERISTICS							
Zero-Gate-Voltage Drain Curren	t (Note 1.) $(V_{DS} = 15 \text{ Vdc}, V_{GS} = 0)$	IDSS	3.0	-	7.0	mAdc	
SMALL-SIGNAL CHARACTE	RISTICS						
Forward Transfer Admittance	$(V_{DS} = 15 \text{ Vdc}, V_{GS} = 0, f = 1 \text{ kHz})$	Y _{fs}	4.5	5.0	-	mmhos	
Reverse Transfer Capacitance (V _{DS} = 20 Vdc, -V _{GS} = 1 Vdc, f = 1 MHz)		C _{rss}	-	0.7	-	pF	
Output Capacitance	$(V_{DS} = 20 \text{ Vdc}, V_{GS} = 0, f = 1 \text{ MHz})$	C _{oss}	-	1.0	-	pF	
Cut–Off Frequency (Note 2.)	$(V_{DS} = 15 \text{ Vdc}, V_{GS} = 0)$	^f gfs	-	1000	-	MHz	

1. Pulse Test: Pulse Width = 300 μ s, Duty Cycle = 2.0%.

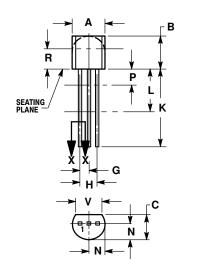
2. The frequency at which gfs is 0.7 of its value at 1 KHz.





PACKAGE DIMENSIONS

TO-92 (TO-226) CASÈ 29-11 **ISSUE AL**





NOTES

DIMENSIONING AND TOLERANCING PER ANSI

Y14.5M, 1982. CONTROLLING DIMENSION: INCH. 2 3.

CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.175	0.205	4.45	5.20	
В	0.170	0.210	4.32	5.33	
С	0.125	0.165	3.18	4.19	
D	0.016	0.021	0.407	0.533	
G	0.045	0.055	1.15	1.39	
н	0.095	0.105	2.42	2.66	
J	0.015	0.020	0.39	0.50	
K	0.500		12.70		
L	0.250		6.35		
Ν	0.080	0.105	2.04	2.66	
Р		0.100		2.54	
R	0.115		2.93		
V	0.135		3.43		

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