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ON Semiconductor BF256A

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Distributor of ON Semiconductor: Excellent Integrated System Limited Datasheet of BF256A - TRANS JFET RF SS N-CH 30V TO-92 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

BF256A

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 $-C_{rss} = 0.7$ (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	IG(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

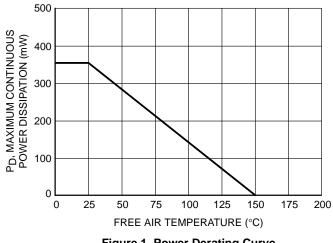
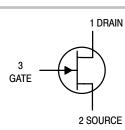


Figure 1. Power Derating Curve



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Y = Year WW = Work Week

ORDERING INFORMATION

Device	Package	Shipping
BF256A	TO-92	5000 Units/Box

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



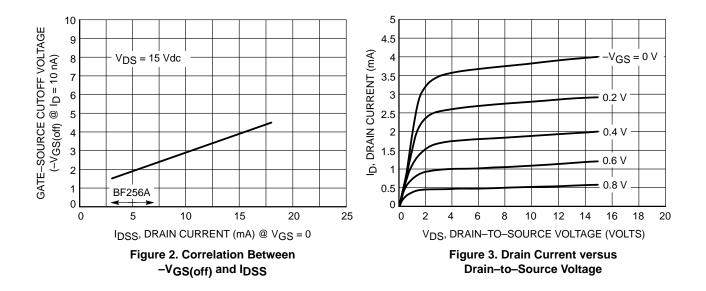
BF256A

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted)

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

1. Pulse Test: Pulse Width = $300 \ \mu$ s, Duty Cycle = 2.0%.

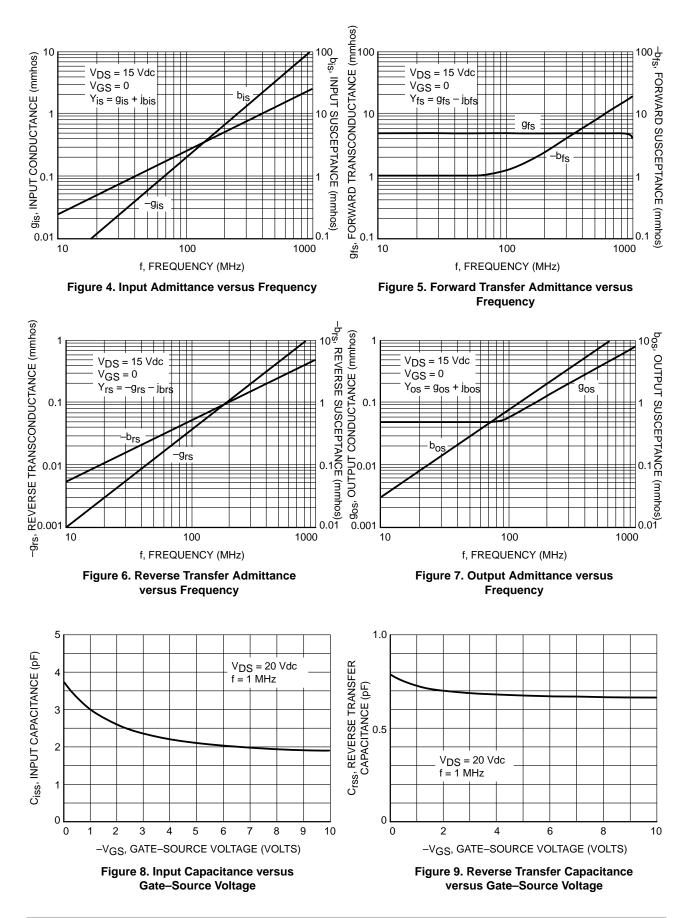
2. The frequency at which gfs is 0.7 of its value at 1 KHz.





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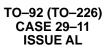


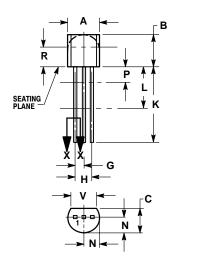




BF256A

PACKAGE DIMENSIONS







NOTES 1. DIMENSIONING AND TOLERANCING PER ANSI Y14 5M 1982

CONTROLLING DIMENSION: INCH. CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED. 3.

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
C	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
Ρ		0.100		2.54
R	0.115		2.93	
۷	0.135		3.43	

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