

n-channel JFETs designed for . . .



Performance Curves NH
See Section 4

- VHF/UHF Amplifiers
- Mixers
- Oscillators

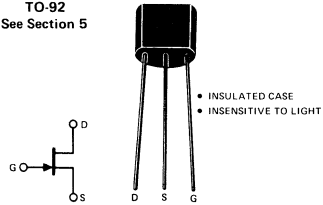
BENEFITS

- Low Cost
- Automatic Insertion Package
- Specified for 100 MHz Operation

***ABSOLUTE MAXIMUM RATINGS**

Drain-Gate Voltage	25 V
Source-Gate Voltage	25 V
Drain-Source Voltage	25 V
Forward Gate Current	10 mA
Total Device Dissipation at (or Below) $T_A = 25^\circ\text{C}$ (Derate 2.82 mW/ $^\circ\text{C}$ to 135°C)	310 mW
Operating Junction Temperature Range	-65 to $+135^\circ\text{C}$
Storage Temperature Range	-65 to $+150^\circ\text{C}$

TO-92
See Section 5



- INSULATED CASE
- INSENSITIVE TO LIGHT

***ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)**

Characteristic		2N5668		2N5669		2N5670		Unit	Test Conditions			
		Min	Max	Min	Max	Min	Max					
S T A T I C	1	IGSS	Gate Reverse Current		-2.0		-2.0		-2.0	VGS = -15 V, VDS = 0 TA = +100°C		
	2				-2.0		-2.0		-2.0			
	3	BVGS	Gate-Source Breakdown Voltage	-25		-25		-25	V IG = -10 μA, VDS = 0			
	4	VGS(off)	Gate-Source Cutoff Voltage	0.2	4.0	1.0	6.0	2.0		8.0	VDS = 15 V, ID = 10 nA	
	5	IDSS	Saturation Drain Current	1.0	5.0	4.0	10	8.0		20	VDS = 15 V, VGS = 0 (Note 1)	
D Y N A M I C	6	9fs	Common-Source Forward Transconductance	1500	6500	2000	6500	3000	7500	VDS = 15 V, VGS = 0		
	7	9os	Common-Source Output Conductance		20		50		75		f = 1 kHz	
	8	Re(yfs)	Common-Source Forward Transconductance	1000		1600		2500			f = 100 MHz	
	9	Re(yos)	Common-Source Output Conductance		50		100		150			
	10	Re(yis)	Common-Source Input Conductance		800		800		800			
	M I C	11	Ciss	Common-Source Input Capacitance		7.0		7.0			7.0	f = 1 MHz
		12	Crss	Common-Source Reverse Transfer Capacitance		3.0		3.0			3.0	
13		Coss	Common-Source Output Capacitance		4.0		4.0		4.0			
14	NF	Noise Figure		2.5		2.5		2.5	VDS = 15 V, VGS = 0, RG = 1K Ω f = 100 MHz			
15	Gps	Common-Source Power Gain	16		16		16					

*JEDEC registered data

NOTE:

1. Pulse test PW = 300 μs, duty cycle ≤ 3%.

NH

2N5668 2N5669 2N5670

3