

n-channel JFET designed for . . .

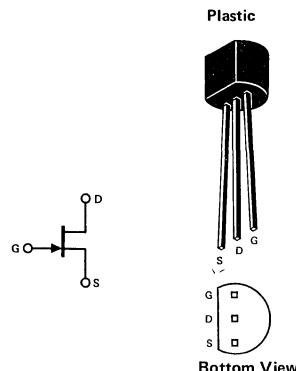
Performance Curves NH/NRL
See Section 4

- VHF/UHF Amplifiers
- Mixers
- Oscillators

ABSOLUTE MAXIMUM RATINGS (25°C)

Drain-Gate Voltage	25 V
Source-Gate Voltage	25 V
Drain-Source Voltage.....	25 V
Forward Gate Current.....	10 mA
Total Device Dissipation at 25°C Ambient (Derate 3.27 mW/°C).....	360 mW
Operating Temperature Range.....	-55 to 135°C
Storage Temperature Range.....	-55 to 150°C
Lead Temperature Range (1/16" from case for 10 seconds)	300°C

TO-92
See Section 6



ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Characteristic		Min	Max	Unit	Test Conditions	
1 2 3 4 5	I _{GSS}	Gate Reverse Current	-1.0	nA	V _{GS} = -15 V, V _{DS} = 0	T _A = +100°C
	T _{AT}		-1.0	μA		
6 7 8 9 10 11 12 13 14	BV _{GSS}	Gate-Source Breakdown Voltage	-25		i _G = -10 μA, V _{DS} = 0	f = 1 kHz
	I _{VGS(off)}		-0.5	-8.0		
6 7 8 9 10 11 12 13 14	I _{DSS}	Saturation Drain Current	1.5	24	V _{DS} = 15 V, V _{GS} = 0 (Note 1)	f = 100 MHz
	g _{fs}		2000	7500		
6 7 8 9 10 11 12 13 14	g _{os}	Common-Source Output Conductance		75	μmhos	f = 100 MHz
	R _{e(y_{fs})}		1600			
6 7 8 9 10 11 12 13 14	R _{e(y_{os})}	Common-Source Output Conductance		200	V _{DS} = 15 V, V _{GS} = 0	f = 1 MHz
	R _{e(y_{is})}			800		
6 7 8 9 10 11 12 13 14	C _{iss}	Common-Source Input Capacitance		6.5	pF	f = 1 kHz
	C _{rss}			2.5		
6 7 8 9 10 11 12 13 14	NF	Noise Figure		2.5	dB	V _{DS} = 15 V, V _{GS} = 0, R _G = 1M Ω
				3.0		V _{DS} = 15 V, V _{GS} = 0, R _G = 1K Ω

NOTE:

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

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