

n-channel JFET

designed for . . .



Performance Curves NZF
See Section 4

- **VHF/UHF Common-Gate Amplifiers**
- **Mixers**

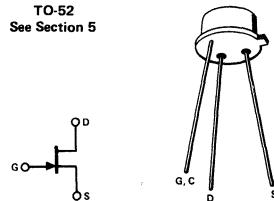
BENEFITS

- High Power Gain
10 dB Typical at 450 MHz,
Common Gate
- Low Noise
NF = 3.5 dB Typical at 450 MHz

ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain or Gate-Source Voltage	.....	-25 V
Gate Current	.....	10 mA
Total Power Dissipation at or below 25°C		
Free-Air Temperature	.....	500 mW
Power Derating	.....	4.0 mW/°C
Operating Temperature Range	.....	-65 to +150°C
Storage Temperature Range	.....	-65 to +150°C
Lead Temperature (1/16" from case for 10 seconds)	.....	300°C

TO-52
See Section 5



ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Characteristic			Min	Max	Unit	Test Conditions	
1 S T A T I C	IGSS	Gate Reverse Current	-	-0.1	nA	V _{GS} = -15 V, V _{DS} = 0	150°C
			-	-0.1	μA		
3 D Y N	BVGSS	Gate-Source Breakdown Voltage	-25		V	I _G = -1 μA, V _{DS} = 0	
4 I C	V _{GS(off)}	Gate-Source Cutoff Voltage	-1	-6	V	V _{DS} = 10 V, I _D = 1 nA	
5	IDSS	Saturation Drain Current (Note 1)	10	30	mA	V _{DS} = 10 V, V _{GS} = 0	
6	g _{fg}	Common-Gate Forward Transconductance (Note 1)	6000	10,000	μmho	V _{DS} = 10 V, I _D = 10 mA	f = 1 kHz
7	g _{og}	Common-Gate Output Conductance		200	μmho		
8	C _{gd}	Gate-Drain Capacitance		1.2	pF	V _{DG} = 10 V, I _D = 10 mA	f = 1 MHz
9	C _{gs}	Gate-Source Capacitance		3.8	pF		

NOTE:

- Pulse test duration = 2 ms.

NZF