

n-channel JFET designed for . . .



Performance Curves NZB
See Section 4

- **VHF Amplifiers**
- **Oscillators**
- **Mixers**

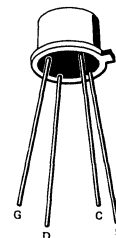
BENEFITS

- **High Power Gain**
16 dB Typ @ 105 MHz, Common-Gate
11 dB Typ @ 450 MHz, Common-Gate
- **Low Noise Figure**
1.5 dB Typ @ 105 MHz
2.7 dB Typ @ 450 MHz
- **Wide Dynamic Range—Greater than 100 dB**

ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain or Gate-Source Voltage -25 V
 Gate Current 10 mA
 Total Device Dissipation (Derate 1.7 mW/°C) 300 mW
 Storage Temperature Range -65 to +200°C
 Lead Temperature
 (1/16" from case for 10 seconds) 300°C

TO-72
See Section 6



ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Characteristic				Min	Max	Typ	Unit	Test Conditions	
1	S T A T I C	IGSS	Gate Reverse Current		-150		pA	VGS = -15 V, VDS = 0	150°C
2					-150		nA		
3		BVGSS	Gate-Source Breakdown Voltage	-25			V	IG = -1 μA, VDS = 0	
4		VGS(off)	Gate-Source Cutoff Voltage	-1	-6			VDS = 10 V, ID = 1 nA	
5		IDSS	Saturation Drain Current (Note 1)	20	60		mA	VDS = 10 V, VGS = 0	
6		VGS(f)	Gate-Source Forward Voltage		1		V	IG = 1 mA, VDS = 0	
7	D Y N	gfg	Common-Gate Forward Transconductance (Note 1)	10,000		17,000	μmho	VDS = 10 V, ID = 10 mA	f = 1 kHz
8		gog	Common-Gate Output Conductance		250				
9		Cgd	Gate-Drain Capacitance		2.5		pF	VDG = 10 V, ID = 5 mA	
10		Cgs	Gate-Source Capacitance		5.0				

NOTE:

1. Pulse test duration = 2 ms.

NZB