

p-channel JFET designed for . . .



Performance Curves PC
See Section 4

■ General Purpose Amplifiers

*ABSOLUTE MAXIMUM RATINGS (25°C)

- Gate-Drain or Gate-Source Voltage (Note 1) 20 V
- Drain-Source Voltage -20 V
- Gate Current 10 mA
- Total Device Dissipation at (or below)
25°C Free-Air Temperature (Note 2) 300 mW
- Storage Temperature Range -65 to +200°C
- Lead Temperature 1/16" From Case For 10 Sec 300°C

TO-72
See Section 5



* ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Characteristic	2N3909		Unit	Test Conditions	
	Min	Max			
1 I _{GSS} Gate Reverse Current		10	nA	V _{GS} = 10 V, V _{DS} = 0	
2 S		1	μA		T = 100°C
3 BV _{GSS} Gate-Source Breakdown Voltage	20			I _G = 10 μA, V _{DS} = 0	
4 V _{GS(off)} Gate-Source Cutoff Voltage		8.0	v	V _{DS} = -10 V, I _D = -10 μA	
5 V _{GS} Gate-Source Voltage	0.3	7.9		V _{DS} = -10 V, I _D = -30 μA	
6 I _{DSS} Saturation Drain Current	-0.3	-15	mA		
7 g _{fs} Common-Source Forward Transconductance	1,000	5,000		V _{DS} = -10 V, V _{GS} = 0	
8 g _{os} Common-Source Output Conductance		100	μmho		f = 1 kHz
9 y _{fs} Common-Source Forward Transadmittance	900				f = 10 MHz
10 C _{iss} Common-Source Input Capacitance		32	pF		f = 1 MHz
11 C _{rss} Common-Source Reverse Transfer Capacitance		16			

PC

* JEDEC registered data

Notes

- 1 Due to symmetrical geometry, these units may be operated with source and drain leads interchanged.
- 2 Derate linearly to 175°C free-air temperature at rate of 2 mW/°C.