

n-channel JFETs designed for . . .

Performance Curves NRL
See Section 4

■ General Purpose Amplifiers

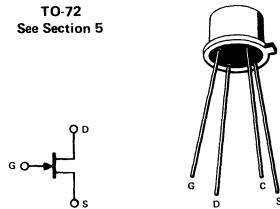
BENEFITS

- Low Noise
- Low Output Conductance

*ABSOLUTE MAXIMUM RATINGS (at 25°C)

Gate-Drain or Gate-Source Voltage (Note 1)	-30 V
Gate Current	10 mA
Total Device Dissipation	
(25°C Free Air Temperature)	300 mW
Power Derating (to +175°C)	2.0 mW/°C
Storage Temperature Range	-65 to +200°C
Operating Temperature Range	-65 to +175°C
Lead Temperature	
(1/16" from case for 10 seconds)	240°C

TO-72
See Section 5



*ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

	Characteristic	2N5556		2N5557		2N5558		Unit	Test Conditions	
		Min	Max	Min	Max	Min	Max		V _{GS} = -15 V, V _{DS} = 0 V	T = 150°C
1	S T A T I C I C G _{SS} Gate Reverse Current	-0.1		-0.1		-0.1		nA	V _{DS} = 15 V, I _D = 1 nA	
2		-100		-100		-100				
3	V _{GSS(off)} Gate-Source Cutoff Voltage	-0.2	-4.0	-0.8	5.0	-1.5	-6.0	V	I _G = -10 μA, V _{DS} = 0 V	
4	B V _{GSS} Gate-Source Breakdown Voltage	-30		-30		-30				
5	I _{DSS} Saturation Drain Current (Note 2)	0.5	2.5	2.0	5.0	4.0	10.0	mA	V _{DG} = 15 V, V _{GS} = 0 V	
6	B _{fs} Common-Source Forward Transconductance	1500	6500	1500	6500	1500	6500	μmho		
7	B _{os} Common-Source Output Conductance		20		20		20		f = 1 kHz	
8	C _{rss} Common-Source Reverse Transfer Capacitance		3		3		3	pF		
9	C _{iiss} Common-Source Input Capacitance		6		6		6		f = 1 MHz	
10	Ē _n Common-Source Equivalent Short Circuit Input Noise Voltage		35		35		35	nV/Hz		
11			20		20		20		f = 10 Hz	
12	NF Noise Figure		1		1		1	dB		
13			1		1		1		f = 100 Hz	

* JEDEC registered data

NRL

NOTES:

1. Geometry is symmetrical. Units may be operated with source and drain leads interchanged.
2. Pulse test duration \leq 2 ms.