

n-channel JFETs designed for . . .



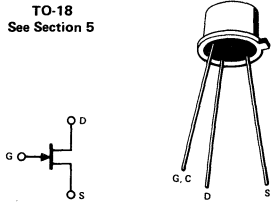
Performance Curves NP
See Section 4

■ Small-Signal Low Power Applications

*ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain or Gate-Source Voltage (Note 1)	...	-40 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 +175°C
Maximum Operating Temperature	...	150°C

TO-18
See Section 5



*ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Characteristic		2N3368		2N3369		2N3370		Unit	Test Conditions										
		Min	Max	Min	Max	Min	Max												
1	IGSS	Gate Reverse Current		-5		-5		nA	VGS = -30 V, VDS = 0	100°C									
				-1.5		-1.5		µA											
3	BVGSS	Gate-Source Breakdown Voltage		-40		-40		V	IG = -1 µA, VDS = 0										
		4	VGS(off)	Gate-Source Cutoff Voltage		-11.5			-6.5		VDS = 20 V, ID = 1 µA								
				5		5			5		nA	VDS = 20 V, VGS = ()							
5	ID(off)	Drain Cutoff Current		(-12.0)		(-7.0)		(V)											
6	IDSS	Saturation Drain Current		2.0		12.0		0.5	2.5		0.1	0.6		mA		VDS = 30 V (Note 3), VGS = 0			
7	9fs	Common-Source Forward Transconductance		1000		4000		600		2500		300		2500		µmho	VDS = 30 V (Note 3), VGS = 0		f = 1 kHz
		9oss		Common-Source Output Conductance		80		30		15									
		9oss		Common-Source Output Capacitance		3		3		3									
		Ciss		Common-Source Input Capacitance		20		20		20									
8																VDS = 30 V, VGS = 0		f = 1 MHz	
9																VDS = 8 V, VGS = 0			

*JEDEC registered data.

NP

NOTES:

1. Due to symmetrical geometry, these units may be operated with source and drain leads interchanged.
2. Derate linearly to 150°C free-air temperature at rate of 2.1 mW/°C.
3. To minimize heating on high IDSS units, this parameter is measured during a 2 ms interval 100 ms after power is applied. (Not a JEDEC condition.)