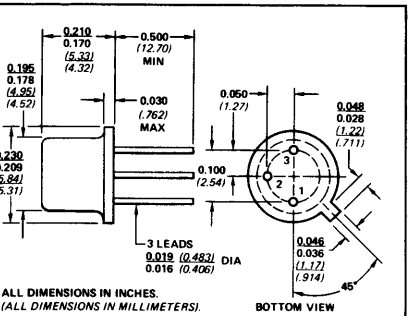
Performance Curves PA PB PC PD
See Pages 4-53, 54, 55, 56

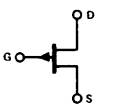
P-CHANNEL SILICON JUNCTION FIELD-EFFECT TRANSISTORS

INDUSTRIAL FETS

- **Electrical Specifications are Similar to the Parent 2N2606 Series.**



TO-18



PIN	OUT
1	S
2	G,C
3	D

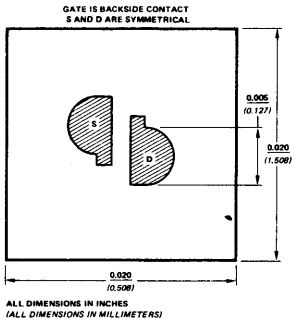
ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain and Gate-Source Voltage (Note 1) ..... 20 V
Gate Current ..... 30 mA
Total Device Dissipation at (or below) 25°C
Free-Air Temperature (Note 2) ..... 300 mW
Storage Temperature Range ..... -65 to +150°C

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

		Characteristic		U110		U112		U146		U147		U148		U149		Unit	Test Conditions	
				Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
1	STATIC	I_{GSS}	Gate Reverse Current		4		10		10		20		60		200	nA	V_{GS} = 20 V, V_{DS} = 0	
2					4		10		10		20		60		200	μA		125°C
3		$V_{GS(off)}$	Gate-Source Cutoff Voltage	1	6	1	6		6		6		6		6	V	V_{DS} = -10 V, I_D = -1 μA	
4		BV_{GSS}	Gate-Source Breakdown Voltage	20		20		20		20		20		20			I_G = 1 μA, V_{DS} = 0	
5		I_{DSS}	Saturation Drain Current	-0.10	-1	-0.90	-9	-0.025		-0.065		-0.2		-0.44		mA	V_{DS} = -10 V, V_{GS} = 0	
6	DYN	g_{fs}	Common-Source Forward Transconductance	110		1000		60		180		540		1400		μmho	V_{DS} = -10 V, V_{GS} = 0	f = 1 kHz
7		C_{iss}	Common-Source Input Capacitance		6		17		6		10		17		30	pF	V_{DS} = -10 V, V_{GS} = 1 V	f = 140 kHz
				PA		PC		PA		PB		PC		PD				

NOTES:
1. Due to symmetrical geometry, these units may be operated with source and drain leads interchanged.
2. Derate 2 mW/°C.



P-CHANNEL DEPLETION MODE SILICON JUNCTION FIELD-EFFECT TRANSISTOR

APPLICATIONS

- **General Purpose Amplifiers**

PRINCIPAL DEVICES

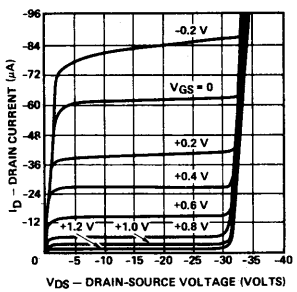
2N2606 2N2841 2N3328
U110 U146

PACKAGE TYPES

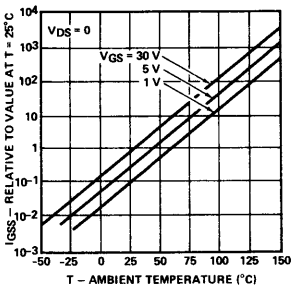
TO-18 TO-72

PERFORMANCE CURVES (25°C unless otherwise noted)

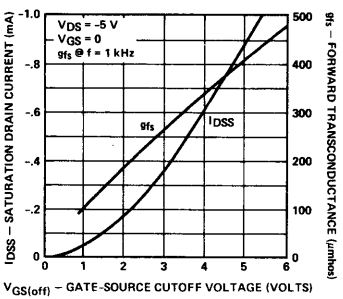
Output Characteristic



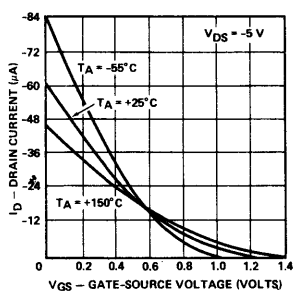
Gate Reverse Current vs Ambient Temperature



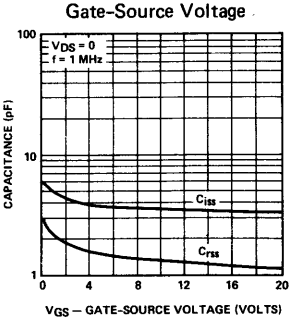
Drain Current & Transconductance vs Gate-Source Voltage



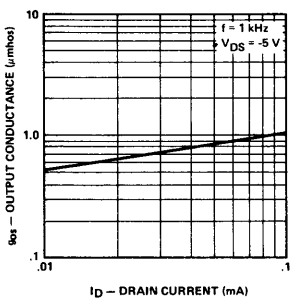
Transfer Characteristic



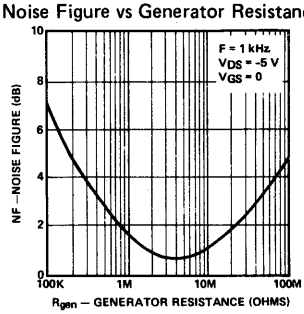
Common-Source Capacitances vs Gate-Source Voltage



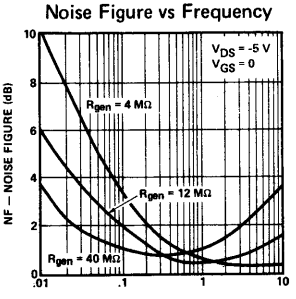
Common-Source Output Admittance vs Drain Current



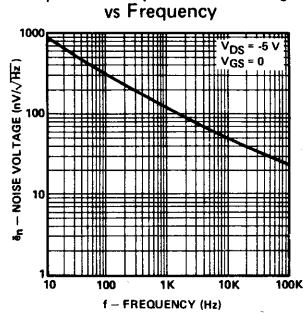
Noise Figure vs Generator Resistance



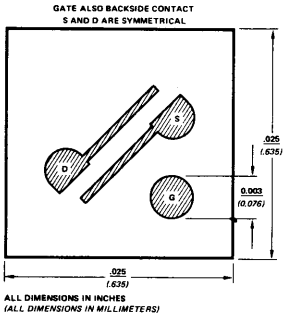
Noise Figure vs Frequency



Equivalent Input Noise Voltage vs Frequency



PB



P-CHANNEL DEPLETION MODE SILICON JUNCTION FIELD-EFFECT TRANSISTOR

APPLICATIONS

- **General Purpose Amplifiers**

PRINCIPAL DEVICES

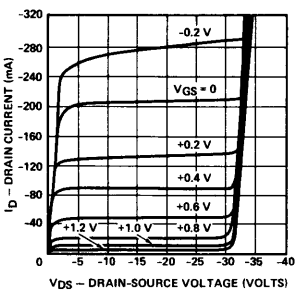
2N2607 2N2842 U147

PACKAGE TYPE

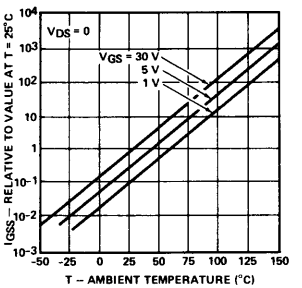
TO-18 TO-72

PERFORMANCE CURVES (25°C unless otherwise noted)

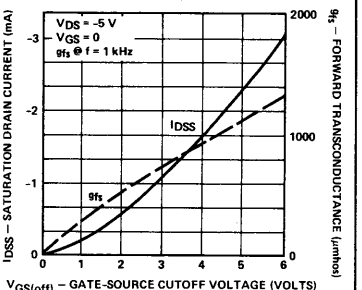
Output Characteristic



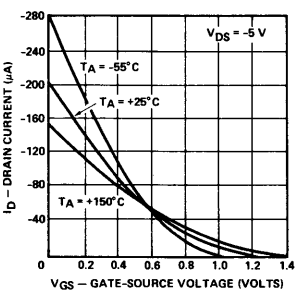
Gate Reverse Current vs Ambient Temperature



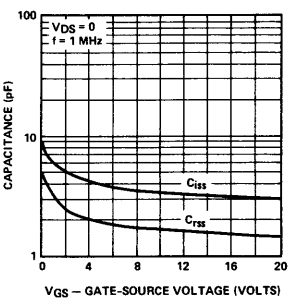
Drain Current & Transconductance vs Gate-Source Voltage



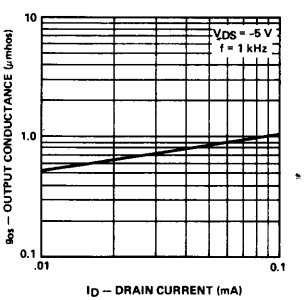
Transfer Characteristic



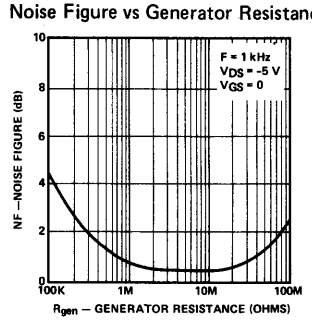
Common-Source Capacitances vs Gate-Source Voltage



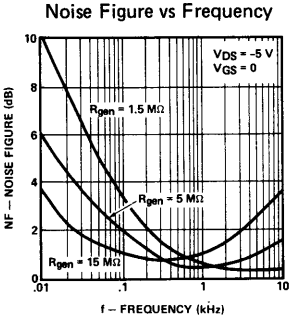
Common-Source Output Admittance vs Drain Current



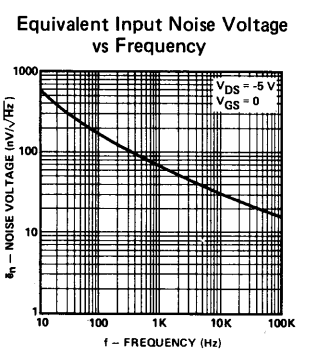
Noise Figure vs Generator Resistance

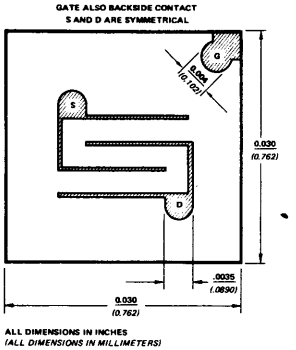


Noise Figure vs Frequency



Equivalent Input Noise Voltage vs Frequency





P-CHANNEL DEPLETION MODE SILICON JUNCTION FIELD-EFFECT TRANSISTOR

APPLICATIONS

- **General Purpose Amplifiers**

PRINCIPAL DEVICES

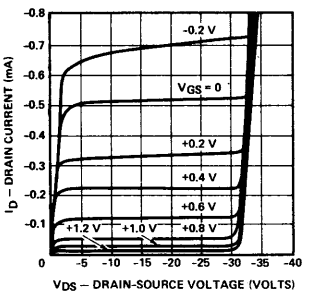
2N2386 2N2497-9 2N2608
2N2843 2N3329-31 U112
U148

PACKAGE TYPES

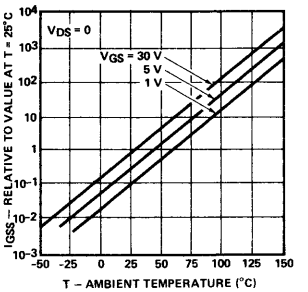
TO-5 TO-18 TO-72

PERFORMANCE CURVES (25°C unless otherwise noted)

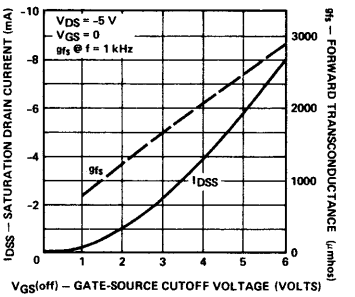
Output Characteristic



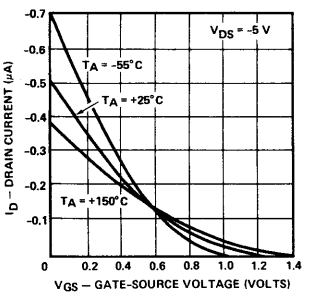
Gate Reverse Current vs Ambient Temperature



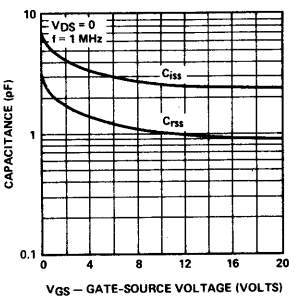
Drain Current & Transconductance vs Gate-Source Voltage



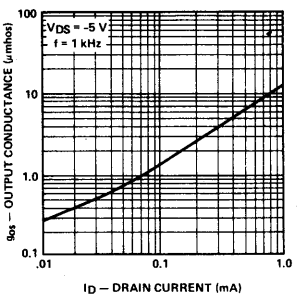
Transfer Characteristic



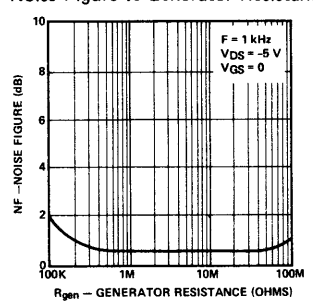
Common-Source Capacitances vs Gate-Source Voltage



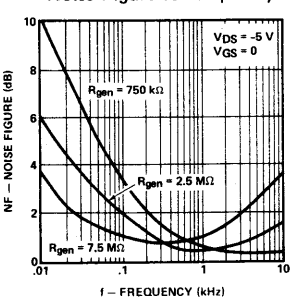
Common-Source Output Admittance vs Drain Current



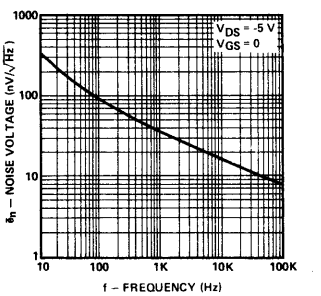
Noise Figure vs Generator Resistance

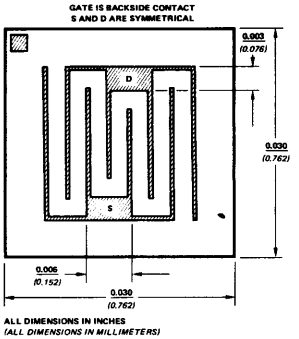


Noise Figure vs Frequency



Equivalent Input Noise Voltage vs Frequency





P-CHANNEL DEPLETION MODE SILICON JUNCTION FIELD-EFFECT TRANSISTOR

APPLICATIONS

- **General Purpose Amplifiers**

PRINCIPAL DEVICES

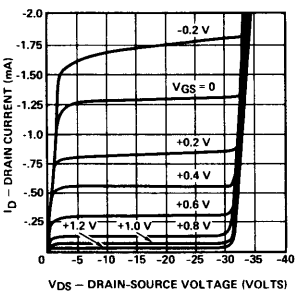
2N2609 2N2844 U110
U149

PACKAGE TYPES

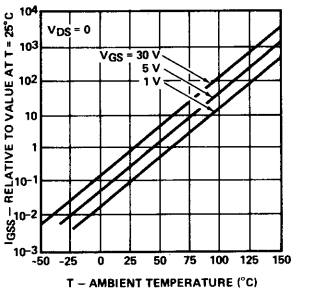
TO-18 TO-72

PERFORMANCE CURVES (25°C unless otherwise noted)

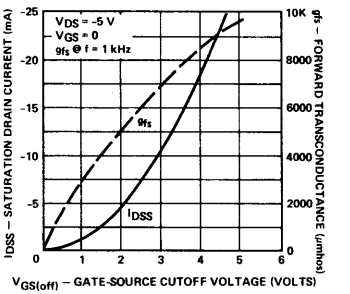
Output Characteristic



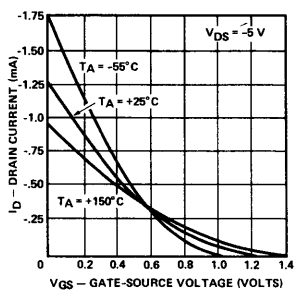
Gate Reverse Current vs Ambient Temperature



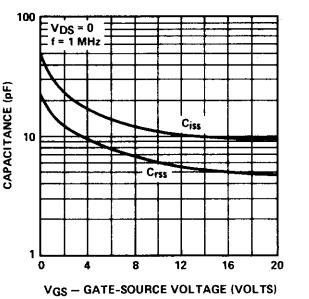
Drain Current & Transconductance vs Gate-Source Voltage



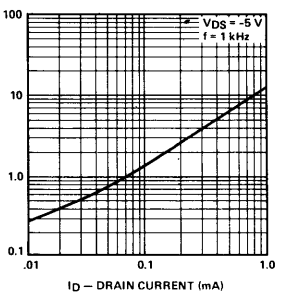
Transfer Characteristic



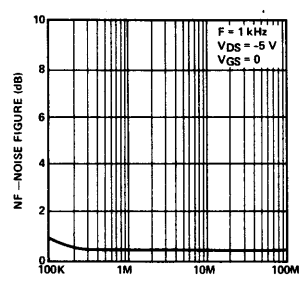
Common-Source Capacitance vs Gate-Source Voltage



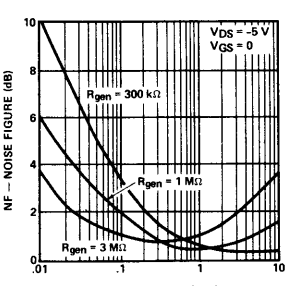
Common-Source Output Admittance



Noise Figure vs Generator Resistance



Noise Figure vs Frequency



Equivalent Input Noise Voltage vs Frequency