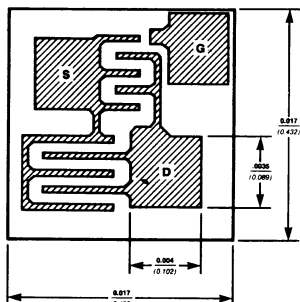




n-channel JFET designed for . . .

- Small Signal Amplifiers
- Choppers
- Voltage-Controlled Resistors

TYPE	PACKAGE
Single	TO-18
Single	TO-72
Single	TO-92
Dual	Chip
Single	Chip

Siliconix

BENEFITS:

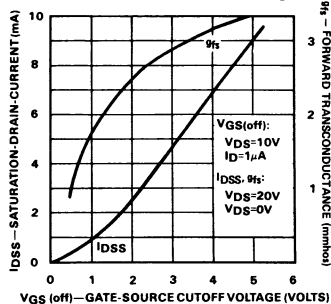
- Low Noise NF < 1 dB at 1 kHz
- Operation From Low Power Supply Voltages, $V_{GS(off)} < 1\text{ V}$ (2N4338)
- High Off-Isolation As a Switch
 $I_{D(off)} < 50\text{ pA}$
- High Input Impedance

PRINCIPAL DEVICES

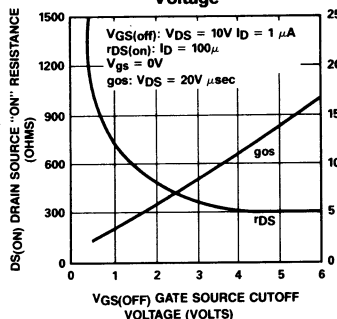
2N4338-41, VCR4N
2N4867-9, 2N4869A-9A
2N4220-2 2N4220A-2A,
J201-204, PN4302-04, J230-2
All single Part No's above

PERFORMANCE CURVES (25°C unless otherwise noted)

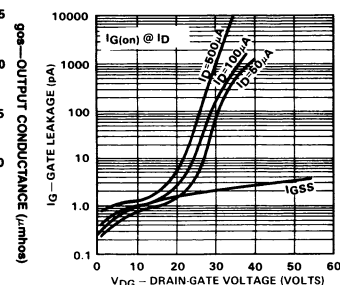
Drain Current & Transconductance
vs Gate-Source Cutoff Voltage



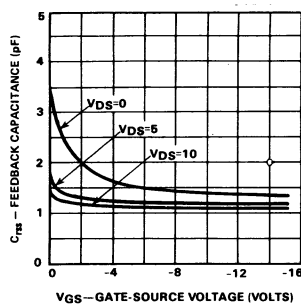
On Resistance & Output
Conductance vs Gate-Source Cutoff
Voltage



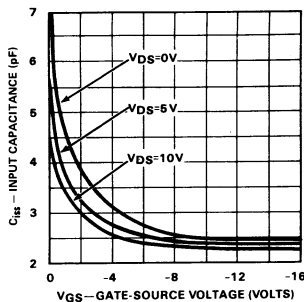
Gate Operating Current
vs Drain-Gate Voltage



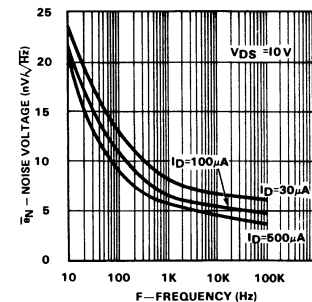
Common Source Reverse
Feedback Capacitance
vs Gate Source Voltage



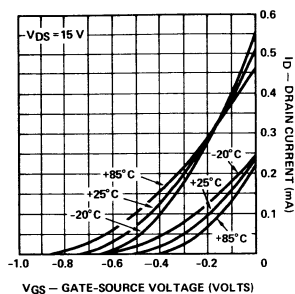
Common Source Input Capacitance
vs Gate-Source Voltage



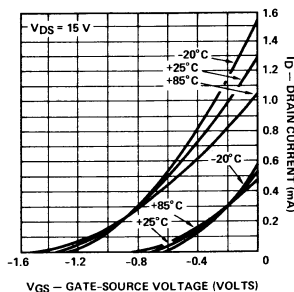
Noise Voltage vs Frequency



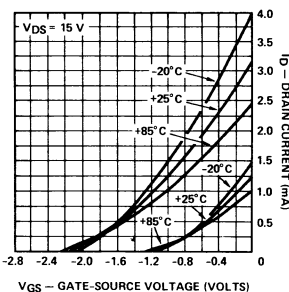
Transfer Characteristics



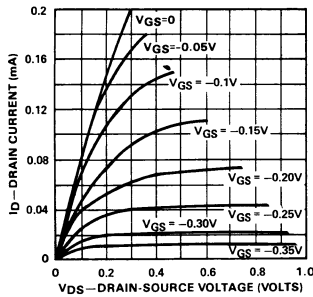
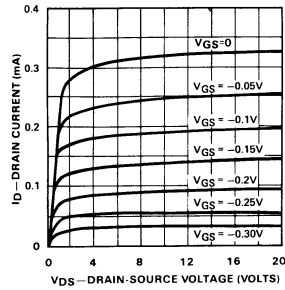
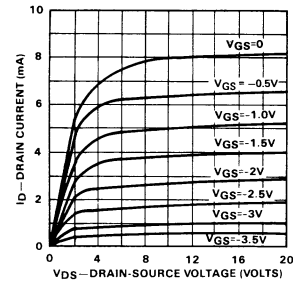
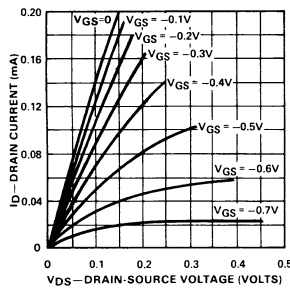
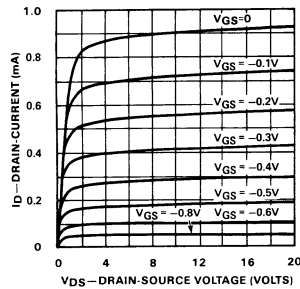
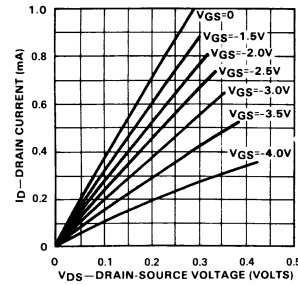
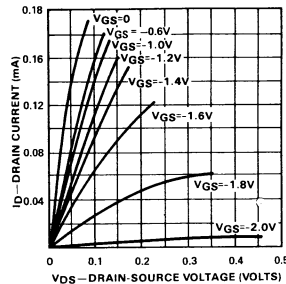
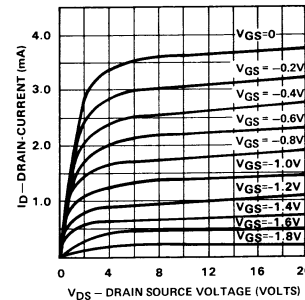
Transfer Characteristics



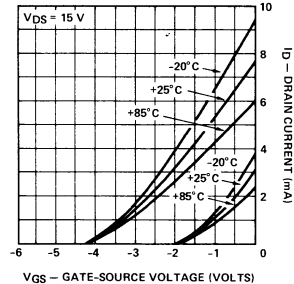
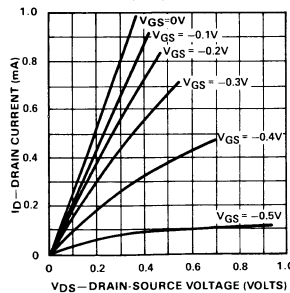
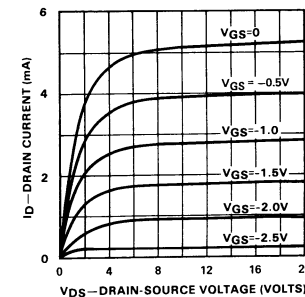
Transfer Characteristics



PERFORMANCE CURVES (Con't) (25°C unless otherwise noted)

Output Characteristic
($V_{GS(off)} = -0.5V$)Output Characteristic
($V_{GS(off)} = -0.5V$)Output Characteristic
($V_{GS(off)} = -4.2V$)Output Characteristic
($V_{GS(off)} = -1.0V$)Output Characteristic
($V_{GS(off)} = -1.0V$)Output Characteristic
($V_{GS(off)} = -4.2V$)Output Characteristic
($V_{GS(off)} = -2.3V$)Output Characteristic
($V_{GS(off)} = -2.3V$)

Transfer Characteristics

Output Characteristic
($V_{GS(off)} = -3.0V$)Output Characteristic
($V_{GS(off)} = -3.0V$)

Transconductance Characteristics

