

n-channel JFETs designed for . . .

Performance Curves NCB
See Section 4

- Analog Switches
- Commutators
- Choppers

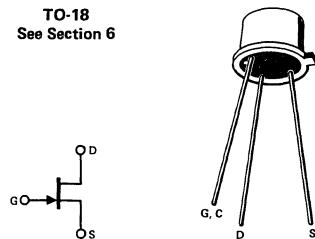
BENEFITS

- Low Insertion Loss
 $r_{DS(on)} < 50 \Omega$ (U202)
- Good Off-Isolation
 $I_{D(off)} < 1 \text{ nA}$

ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain or Gate-Source Voltage	.....	-30 V
Gate Current	.....	50 mA
Total Device Dissipation at 25°C Case Temperature (Derate 10 mW/°C)	.....	1.8 W
Storage Temperature Range	.....	-65 to +200°C
Lead Temperature (1/16" from case for 10 seconds)	.....	300°C

TO-18
See Section 6



ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Characteristic		U200		U201		U202		Unit	Test Conditions		
		Min	Max	Min	Max	Min	Max				
1	$|I_{GSS}$	Gate Reverse Current		-1		-1		-1	nA	$V_{GS} = -20 \text{ V}, V_{DS} = 0$	
		-1		-1		-1		-1	μA		
3	BV_{GSS}	Gate-Source Breakdown Voltage		-30		-30		-30		$I_G = -1 \mu\text{A}, V_{DS} = 0$	
		-30		-30		-30		-30	μA		
4	$V_{GS(off)}$	Gate-Source Cutoff Voltage		-0.5	-3	-1.5	-5	-3.5	-10	V	
		-0.5	-3	-1.5	-5	-3.5	-10	-1	nA		
5	$|I_{D(off)}$	Drain Cutoff Current		1		1		1	μA	$V_{DS} = 20 \text{ V}, I_D = 10 \text{ nA}$	
		1		1		1		1	μA		
6	$|I_{DSS}$	Saturation Drain Current (Note 1)		3	25	15	75	30	150	mA	$V_{DS} = 20 \text{ V}, V_{GS} = 0$
7	$r_{ds(on)}$	Drain-Source ON Resistance		150		75		50	ohm	$V_{GS} = 0, I_D = 0$	f = 1 kHz
8	C_{iss}	Common-Source Input Capacitance (Note 1)			30		30		30	pF	$V_{DS} = 20 \text{ V}, V_{GS} = 0$
9	C_{rss}	Common-Source Reverse Transfer Capacitance			8		8		8		f = 1 MHz

NOTE:

1. Pulse test required, pulselwidth = 300 μsec , duty cycle $\leq 3\%$.

NCB