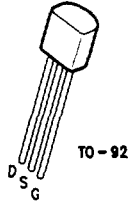




J108  
J109  
J110



TL/G/10100-2

**N-Channel JFET Switch**

**Electrical Characteristics**  $T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)GSS}$	Gate-Source Breakdown Voltage ( $V_{DS} = 0, I_G = -10 \mu\text{Adc}$ )	-25		Vdc
$I_{GSS}$	Gate Reverse Current ( $V_{GS} = -15 \text{Vdc}, V_{DS} = 0$ ) ( $V_{GS} = -15 \text{Vdc}, V_{DS} = 0, T_A = 100^\circ\text{C}$ )		-3.0 -200	nAdc
$V_{GS(off)}$	Gate Source Cutoff Voltage ( $V_{DS} = 15 \text{Vdc}, I_D = 10 \text{nAdc}$ )			Vdc
	J108	-3.0	-10	
	J109	-2.0	-6.0	
	J110	-0.5	-4.0	
<b>ON CHARACTERISTICS</b>				
$I_{DSS}$	Zero-Gate-Voltage Drain Current, (Note 1) ( $V_{DS} = 15 \text{Vdc}, V_{GS} = 0$ )			mAdc
	J108	80		
	J109	40		
	J110	10		
$r_{DS(on)}$	Drain-Source-On-Resistance ( $V_{DS} \leq 0.1 \text{Vdc}, V_{GS} = 0$ )			$\Omega$
	J108		8.0	
	J109		12	
	J110		18	
<b>SMALL-SIGNAL CHARACTERISTICS</b>				
$C_{dg(on)} + C_{sg(on)}$	Drain Gate + Source Gate On-Capacitance ( $V_{DS} = 0 \text{Vdc}, V_{GS} = 0, f = 1.0 \text{MHz}$ )		85	pF
$C_{dg(off)}$	Drain Gate Off-Capacitance ( $V_{DS} = 0 \text{Vdc}, V_{GS} = -10 \text{V}, f = 1.0 \text{MHz}$ )		15	pF
$C_{sg(off)}$	Source Gate Off-Capacitance ( $V_{DS} = 0 \text{Vdc}, V_{GS} = -10 \text{V}, f = 1.0 \text{MHz}$ )		15	pF

Note 1: Pulse Duration 300  $\mu\text{s}$ , Duty Cycle  $\leq 2.0\%$ .

Note 2: For characteristics curves, see Process 58.