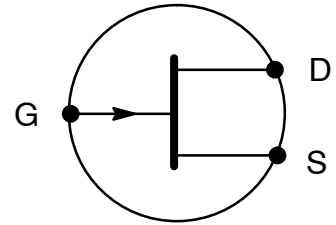




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NTE468

Silicon N-Channel JFET Transistor Chopper, High Speed Switch TO92 Type Package



Applications:

- Analog Switches
- Choppers
- Commutators

Absolute Maximum Ratings:

Drain-Source Voltage, V_{DS}	35V
Drain-Gate Voltage, V_{DG}	35V
Gate Current, I_G	50mA
Total Device Dissipation ($T_A = +25^\circ\text{C}$), P_D	625mW
Derate Above 25°C	5.68mW/ $^\circ\text{C}$
Operating Junction Temperature Range, T_J	-55° to $+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$
Lead Temperature (During Soldering), T_L	$+300^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF Characteristics						
Gate-Source Breakdown Voltage	$V_{(BR)GS}$ S	$I_G = 1 \text{ A}, V_{DS} = 0$	35	-	-	V
Gate Reverse Current	I_{GSS}	$V_{GS} = -15\text{V}, V_{DS} = 0$	-	-	-1.0	nA
Gate-Source Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5\text{V}, I_D = 1 \text{ A}$	-3	-	-10	V
Drain Cutoff Current	$I_{D(off)}$	$V_{DS} = 5\text{V}, V_{GS} = -10\text{V}$	-	-	1.0	nA
ON Characteristics						
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 15\text{V}, V_{GS} = 0$, Note 1	20	-	-	mA
Static Drain-Source ON Resistance	$r_{DS(on)}$	$V_{DS} = 0.1\text{V}$	-	-	30	$^\circ$
Drain-Gate ON Capacitance	$C_{dg(on)}$	$V_{DS} = V_{GS} = 0, f = 1\text{MHz}$	-	-	28	pF
Source-Gate ON Capacitance	$C_{sg(on)}$	$V_{DS} = V_{GS} = 0, f = 1\text{MHz}$	-	-	28	pF
Drain-Gate OFF Capacitance	$C_{dg(off)}$	$V_{GS} = -10\text{V}, f = 1\text{MHz}$	-	-	5	pF
Source-Gate OFF Capacitance	$C_{sg(off)}$	$V_{GS} = -10\text{V}, f = 1\text{MHz}$	-	-	5	pF

Note 1. Pulse Test: Pulse Width = 300 μs , Duty Cycle = 3%.

