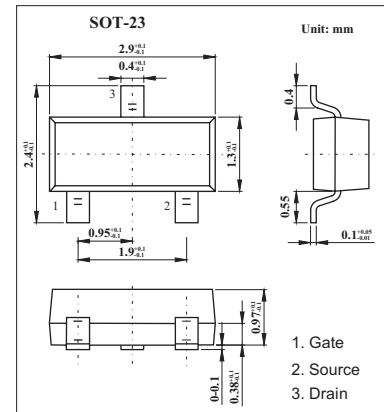
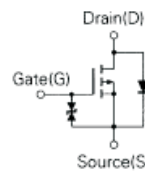


## MOS Field Effect Transistor

### 2SJ461

#### ■ Features

- Can be driven by a 2.5V power source.
- Not necessary to consider driving current because of its high input impedance.
- Possible to reduce the number of parts by omitting the bias resistor.



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Drain to source voltage	V <sub>DSS</sub>	-50	V
Gate to source voltage	V <sub>GSS</sub>	±7.0	V
Drain current (DC)	I <sub>D</sub>	±0.1	A
Drain current(pulse) *	I <sub>D</sub>	±0.2	A
Power dissipation	P <sub>D</sub>	200	mW
Channel temperature	T <sub>ch</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

\* PW ≤ 10 μs; d ≤ 1%.

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Drain to source breakdown voltage	V <sub>DSS</sub>	I <sub>D</sub> =-10mA, V <sub>GS</sub> =0	-20			V
Gate to source breakdown voltage	V <sub>GSS</sub>	I <sub>G</sub> =±200 μA, V <sub>DS</sub> =0	±10			V
Drain cut-off current	I <sub>DSS</sub>	V <sub>DS</sub> =-50V, V <sub>GS</sub> =0			-100	μA
Gate leakage current	I <sub>GSS</sub>	V <sub>GS</sub> =±7.0V, V <sub>DS</sub> =0			±10	μA
Gate to source cutoff voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =-3.0V, I <sub>D</sub> =-1 μA	-0.7	-0.9	-1.3	V
Forward transfer admittance	Y <sub>fs</sub>	V <sub>DS</sub> =-3.0V, I <sub>D</sub> =-10mA	12			ms
Drain to source on-state resistance	R <sub>DS(on)</sub>	V <sub>GS</sub> =-2.5V, I <sub>D</sub> =-3mA		46	100	Ω
		V <sub>GS</sub> =-4.0V, I <sub>D</sub> =-10mA		31	50	Ω
Input capacitance	C <sub>iss</sub>	V <sub>DS</sub> =-3.0V, V <sub>GS</sub> =0, f=1MHZ		6		pF
Output capacitance	C <sub>oss</sub>			9		pF
Reverse transfer capacitance	C <sub>rss</sub>			1.6		pF
Turn-on delay time	t <sub>d(on)</sub>			32		ns
Rise time	t <sub>r</sub>	V <sub>DD</sub> =-3.0V, V <sub>GS(on)</sub> =-3.0V, I <sub>D</sub> =-20mA R <sub>L</sub> =200 Ω, R <sub>G</sub> =10 Ω		270		ns
Turn-off delay time	t <sub>d(off)</sub>			45		ns
Fall time	t <sub>f</sub>			130		ns