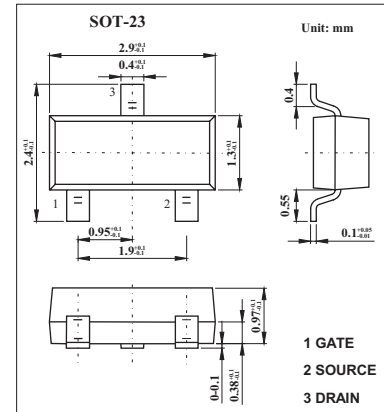
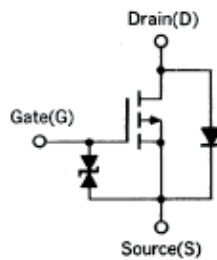


MOS Fied Effect Transistor

2SJ166

■ Features

- Directly driven by lcs having a 5V poer supply.
- Not necessary to consider dreving 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 _{GS} =0	V _{DSS}	-50	V
Gate to source voltage V _{DS} =0	V _{GSS}	±7.0	V
Drain current (DC)	I _D	±100	mA
Drain current(pulse) *	I _D	±200	mA
Total power dissipation	P _T	200	mW
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW ≤ 10 ms; d ≤ 50%.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	I _{DSS}	V _{DS} =-50V, V _{GS} =0			-10	μ A
Gate leakage current	I _{GSS}	V _{GS} =±7.0V, V _{DS} =0			±1.0	μ A
Gate cut-off voltage	V _{GS(off)}	V _{DS} =-5.0V, I _D =-1.0 μ A	-1.0	-2.1	-3.0	V
Forward transfer admittance	Y _{fs}	V _{DS} =-5.0V, I _D =-20mA	30	50		ms
Drain to source on-state resistance	R _{DS(on)}	V _{GS} =-4.0V, I _D =-20mA		18	50	Ω
Input capacitance	C _{iss}	V _{DS} =-5.0V, V _{GS} =0, f=1Mhz		18		pF
Output capacitance	C _{oss}			11		pF
Reverse transfer capacitance	C _{rss}			3		pF
Turn-on delay time	t _{d(on)}	V _{GS(on)} =-5.0V, R _G =10 Ω, V _{DD} =-5.0V, I _D =-20mA R _L =250 Ω		40		ns
Rise time	t _r			58		ns
Turn-off delay time	t _{d(off)}			62		ns
Fall time	t _f			62		ns

■ Marking

Marking	H11
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