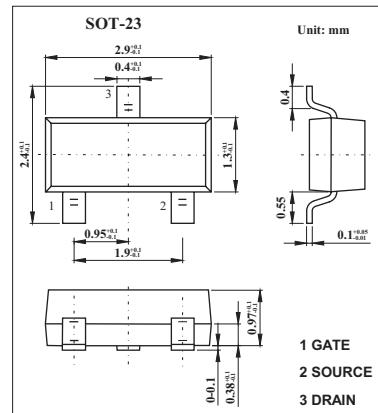
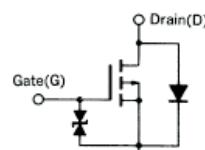


MOS Field Effect Transistor

2SJ185

■ Features

- Directly driven by Ics having a 3V power supply.
- 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 _{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
Power dissipation	P _D	200	mW
Operating temperature	T _{opt}	-55 to +80	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW ≤ 10 ms; d ≤ 50%.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	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			±5	μ A
Gate cut-off voltage	V _{GS(off)}	V _{DS} =-3V, I _D =-1 μ A	-1.2	-1.6	-2.0	V
Forward transfer admittance	Y _{fs}	V _{DS} =-3V, I _D =-10mA	20	42		ms
Drain to source on-state resistance	R _{DSS(on)}	V _{GS} =-2.5V, I _D =-1mA		25	40	Ω
		V _{GS} =-4.0V, I _D =-10mA		13	20	Ω
Input capacitance	C _{iss}	V _{DS} =-3V, V _{GS} =0, f=1MHz		22		pF
Output capacitance	C _{oss}			12		pF
Reverse transfer capacitance	C _{rss}			4		pF
Turn-on delay time	t _{d(on)}	V _{GS(on)} =-3V, R _G =10 Ω , V _{DD} =-3V, I _D =-20mA R _L =150 Ω		80		ns
Rise time	t _r			230		ns
Turn-off delay time	t _{d(off)}			40		ns
Fall time	t _f			70		ns

■ Marking

Marking	H12
---------	-----