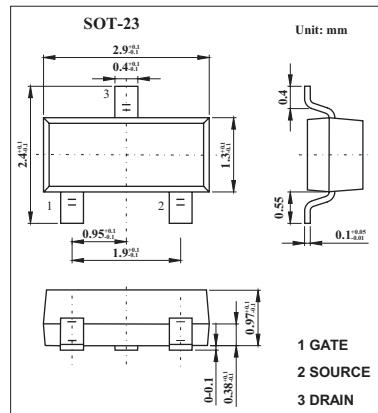


MOS Field Effect Transistor

2SK1582

■ Features

- Can be driven by Ics having a 5V single power supply.
- Not necessary to consider driving current because of its thgh 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 _{DSS}	30	V
Gate to source voltage	V _{GSS}	±20	V
Drain current (DC)	I _D	±200	mA
Drain current(pulse) *	I _D	±400	mA
Power dissipation	P _D	200	mW
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW ≤ 10ms, duty cycle ≤ 5%

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	I _{DSS}	V _{Ds} =30V, V _{Gs} =0			10	μ A
Gate leakage current	I _{GSS}	V _{Gs} =±20V, V _{Ds} =0			±10	μ A
Gate to source cutoff voltage	V _{Gs(off)}	V _{Ds} =5.0V, I _D =10 μ A	0.9	1.2	1.5	V
Forward transfer admittance	Y _{fs}	V _{Ds} =5.0V, I _D =10mA	20	60		ms
Drain to source on-state resistance	R _{Ds(on)}	V _{Gs} =4.0V, I _D =10mA		2.2	5.0	Ω
		V _{Gs} =10V, I _D =10mA		1.4	3.0	Ω
Input capacitance	C _{iss}			28		pF
Output capacitance	C _{oss}	V _{Ds} =5.0V, V _{Gs} =0, f=1MHZ		30		pF
Reverse transfer capacitance	C _{rss}			7		pF
Turn-on delay time	t _{d(on)}	I _D =10mA, V _{Gs(on)} =5.0V, R _L =500 Ω, V _{Ds} =5.0V, R _G =10 Ω		55		ns
Rise time	t _r			200		ns
Turn-off delay time	t _{d(off)}			180		ns
Fall time	t _f			250		ns

■ Marking

Marking	G15
---------	-----