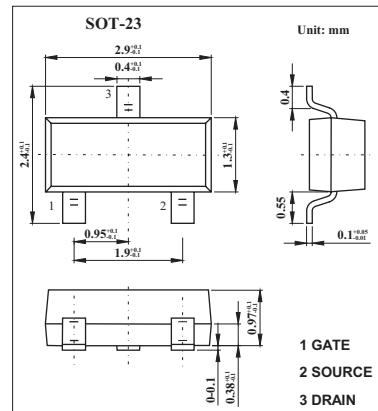


MOS Field Effect Transistor

2SK1581

■ Features

- Can be driven by Ics having a 3V 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}	16	V
Gate to source voltage	V _{GSS}	±16	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} =16V,V _{Gs} =0			10	μ A
Gate leakage current	I _{GSS}	V _{Gs} =±3V,V _{Ds} =0			±10	μ A
Gate to source cutoff voltage	V _{Gs(off)}	V _{Ds} =3.0V,I _D =10 μ A	0.9	1.2	1.5	V
Forward transfer admittance	Y _{fs}	V _{Ds} =3.0V,I _D =10mA	20	70		ms
Drain to source on-state resistance	R _{Ds(on)}	V _{Gs} =2.5V,I _D =1mA		3.2	5.0	Ω
		V _{Gs} =4.0V,I _D =1mA		2.2	3.0	Ω
Input capacitance	C _{iss}	V _{Ds} =3.0V,V _{Gs} =0,f=1MHZ		27		pF
Output capacitance	C _{oss}			37		pF
Reverse transfer capacitance	C _{rss}			8		pF
Turn-on delay time	t _{d(on)}	I _D =10mA,V _{Gs(on)} =3.0V,R _L =300Ω ,V _{DD} =3.0V,R _G =10Ω		100		ns
Rise time	t _r			300		ns
Turn-off delay time	t _{d(off)}			210		ns
Fall time	t _f			240		ns

■ Marking

Marking	G14
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