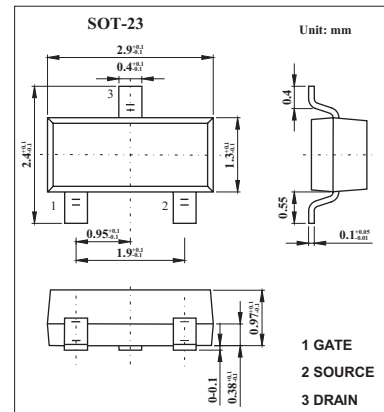


2SK1590

■ Features

- Directly driven by Ics having a 5V power supply.
- Not necessary to consider driving current because of its high input impedance.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Drain to source voltage	V _{DSS}	60	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} =60V, V _{GS} =0			1.0	μA
Gate leakage current	I _{GSS}	V _{GS} =±20V, V _{DS} =0			±1.0	μA
Gate to source cutoff voltage	V _{GS(off)}	V _{DS} =5V, I _D =1 μA	0.8	1.2	1.8	V
Forward transfer admittance	Y _{fs}	V _{DS} =5.0V, I _D =10mA	20	65		ms
Drain to source on-state resistance	R _{DSON}	V _{GS} =4.0V, I _D =10mA		3.2	6.0	Ω
		V _{GS} =10V, I _D =10mA		2.4	3.0	Ω
Input capacitance	C _{iss}	V _{DS} =5.0V, V _{GS} =0, f=1MHZ		26		pF
Output capacitance	C _{oss}			20		pF
Reverse transfer capacitance	C _{rss}			4		pF
Turn-on delay time	t _{d(on)}				50	
Rise time	t _r	I _D =10mA, V _{GS(on)} =5.0V, R _L =500 Ω, V _{DD} =5V, R _G =10 Ω		140		ns
Turn-off delay time	t _{d(off)}			200		ns
Fall time	t _f			190		ns

■ Marking

Marking	G16
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