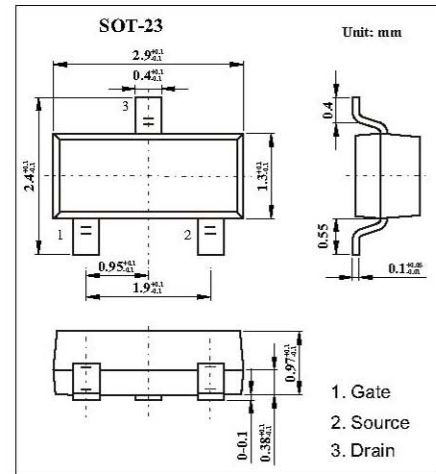
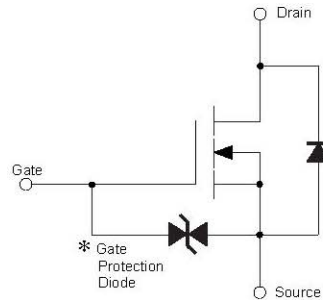


● Features

- Low on-resistance.
- Fast switching speed.
- Silicon N-channel MOSFET
- Drive circuits can be simple.



● Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Drain-source voltage	V_{DS}	30	V
Gate-source voltage	V_{GS}	± 20	V
Drain current	I_D	100	mA
	I_{DP}^{*1}	400	
Total power dissipation	P_D^{*2}	200	mW
Channel to ambient	$R_{th(ch-a)}^{*2}$	625	$^\circ\text{C/W}$
Channel Temperature	T_{ch}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

*1. $P_w \leq 10\mu\text{s}$, duty cycle $\leq 1\%$.

*2. With each pin mounted on the recommended lands.

● Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Gate-source leakage	I_{GSS}	$V_{GS} = \pm 20\text{ V}, V_{DS} = 0\text{ V}$			± 1	μA
Drain-source Breakdown voltage	$V_{(BR)DSS}$	$I_D = 10\text{ }\mu\text{A}, V_{GS} = 0\text{ V}$	30			V
Zero gate voltage drain current	I_{DSS}	$V_{DS} = 30\text{ V}, V_{GS} = 0\text{ V}$			1	μA
Gate threshold voltage	$V_{GS(th)}$	$V_{DS} = 3\text{ V}, I_D = 100\text{ }\mu\text{A}$	0.8		1.5	V
Static drain-source on-state resistance	$R_{DS(on)}$	$I_D = 10\text{ mA}, V_{GS} = 4\text{ V}$ $I_D = 1\text{ mA}, V_{GS} = 2.5\text{ V}$		5 7	8 13	Ω
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 3\text{ V}, I_D = 10\text{ mA}$	20			mS
Input capacitance	C_{iss}	$V_{DS} = 5\text{ V},$		13		pF
Output capacitance	C_{oss}	$V_{DS} = 0\text{ V},$		9		pF
Reverse transfer capacitance	C_{rss}	$f = 1\text{ MHz}$		4		pF
Turn-on delay time	$t_{d(on)}$	$I_D = 10\text{ mA}, V_{DD} = 5\text{ V},$		15		ns
Rise time	t_r	$V_{GS} = 5\text{ V},$		35		ns
Turn-off time	$t_{d(off)}$	$R_L = 500\Omega$		80		ns
Fall time	t_f	$R_G = 10\Omega$		80		ns