2SK3018

Features

Low on-resistance.

Fast switching speed.

Silicon N-channel MOSFET

Drive circuits can be simple.

SOT-23 Unit: mm

1. Gate
2. Source
3. Drain
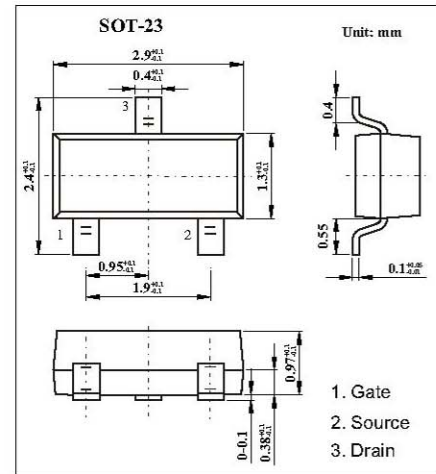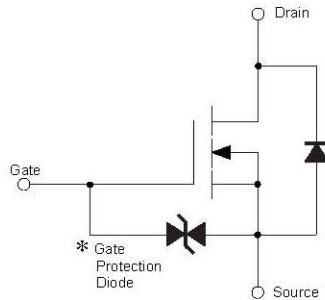
Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Drain-source voltage	V_{DSS}	30	V
Gate-source voltage	V_{GSS}	±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	℃/W
Channel Temperature	T_{ch}	150	℃
Storage temperature	T_{stg}	-55 to +150	℃

*1. Pw≤10μs, duty cycle≤1%.

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

● Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Gate-source leakage	I$_{GSS}$	V$_{GS}$ =±20 V , V$_{DS}$ = 0 V			±1	μA
Drain-source Breakdown voltage	V$_{(BR)DSS}$	I$_D$= 10 μA, V$_{GS}$ = 0V	30			V
Zero gate voltage drain current	I$_{DSS}$	V$_{DS}$ = 30 V, V$_{GS}$ = 0V			1	μA
Gate threshold voltage	V$_{GS(th)}$	V$_{DS}$ = 3 V, I$_D$= 100 μA	0.8		1.5	V
Static drain-source on-state resistance	R$_{DS(on)}$	I$_D$= 10 mA, V$_{GS}$ = 4V I$_D$= 1mA, V$_{GS}$ = 2.5V		5 7	8 13	Ω
Forward transfer admittance	|Y$_{fs}$|	V$_{DS}$ = 3 V, I$_D$= 10 mA	20			mS
Input capacitance	C$_{iss}$	V$_{DS}$ = 5 V,		13		pF
Output capacitance	C$_{oss}$	V$_{DS}$ = 0 V,		9		pF
Reverse transfer capacitance	C$_{rss}$	f= 1MHz		4		pF
Turn-on delay time	t$_{d(on)}$	I$_D$= 10 mA, V$_{DD}$= 5 V,		15		ns
Rise time	t$_r$	V$_{GS}$= 5 V,		35		ns
Turn-off time	t$_{d(off)}$	R$_L$=500Ω		80		ns
Fall time	t$_r$	R$_G$= 10Ω		80		ns

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