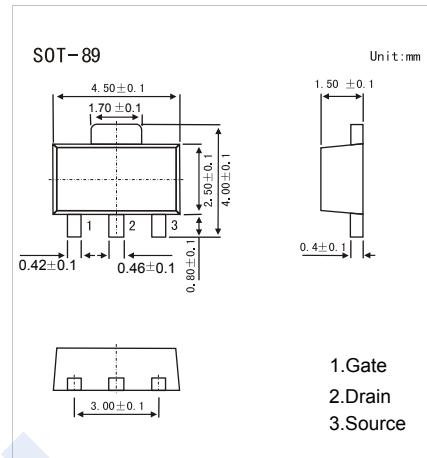
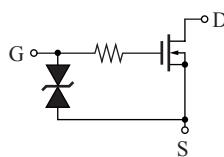


## N-Channel MOSFET

2SK2211

## ■ Features

- $V_{DS} (V) = 30V$
- $I_D = 1A$
- $R_{DS(ON)} < 0.75 \Omega$  ( $V_{GS} = 4V$ )
- $R_{DS(ON)} < 0.6 \Omega$  ( $V_{GS} = 10V$ )

■ Absolute Maximum Ratings  $T_a = 25^\circ C$ 

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	30	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	
Continuous Drain Current	$I_D$	1	A
Pulsed Drain Current	$I_{DM}$	2	
Power Dissipation	$P_D$	1	W
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55 to 150	

■ Electrical Characteristics  $T_a = 25^\circ C$ 

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	$V_{DSS}$	$I_D=100 \mu A, V_{GS}=0V$	30			V
Gate to Source voltage	$V_{GSS}$	$I_{GS}=100 \mu A, V_{DS}=0V$	$\pm 20$			
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=25V, V_{GS}=0V$			10	uA
Gate-Body Leakage Current	$I_{GSS}$	$V_{DS}=0V, V_{GS}=\pm 15V$			$\pm 10$	uA
Gate threshold voltage	$V_{GS(th)}$	$V_{DS}=5V I_D=1mA$	0.8	2		V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=4V, I_D=0.5A$			0.75	$\Omega$
		$V_{GS}=10V, I_D=0.5A$			0.6	
Forward Transconductance	$g_{FS}$	$V_{DS}=10V, I_D=0.5A$	0.5			S
Input Capacitance	$C_{iss}$	$V_{GS}=0V, V_{DS}=10V, f=1MHz$		87		pF
Output Capacitance	$C_{oss}$			69		
Reverse Transfer Capacitance	$C_{rss}$			23		
Turn-On DelayTime	$t_{d(on)}$	$V_{GS}=10V, V_{DS}=10V, I_D=0.5A, R_L=10 \Omega$		12		ns
Turn-Off DelayTime	$t_{d(off)}$			60		
Turn-Off Fall Time	$t_f$			160		

## ■ Marking

Marking	2M
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## N-Channel MOSFET

### 2SK2211

#### ■ Typical Characteristics

