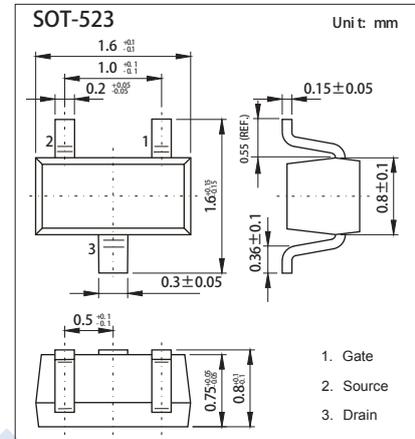
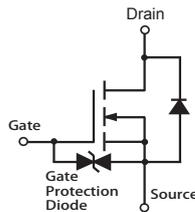


N-Channel MOSFET

2KK5069

Features

- V_{DS} (V) = 60V
- I_D = 350mA
- $R_{DS(ON)}$ = 1.5 Ω (typ.) @ (V_{GS} = 10V)
- $R_{DS(ON)}$ = 2.0 Ω (typ.) @ (V_{GS} = 5V)A
- ESD Protected : HBM \geq 2KV



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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	
Continuous Drain Current	I_D	350	mA
Power Dissipation	P_D	150	mW
Thermal Resistance Junction- to-Ambient	R_{thJA}	833	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D=250 \mu\text{A}$, $V_{GS}=0\text{V}$	60			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=60\text{V}$, $V_{GS}=0\text{V}$			80	nA
Gate-Body Leakage Current	I_{GSS}	$V_{DS}=0\text{V}$, $V_{GS}=\pm 20\text{V}$			± 5	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_D=250 \mu\text{A}$	1		2.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10\text{V}$, $I_D=100\text{mA}$		1.5	2.0	Ω
		$V_{GS}=5\text{V}$, $I_D=50\text{mA}$		2.0	3.0	
On State Drain Current	$I_{D(ON)}$	$V_{GS}=10\text{V}$, $V_{DS}=7\text{V}$	500			mA
Forward Transconductance	g_{FS}	$V_{DS}=10\text{V}$, $I_D=0.2\text{A}$	80			mS
Input Capacitance	C_{iss}	$V_{GS}=0\text{V}$, $V_{DS}=25\text{V}$, $f=1\text{MHz}$			50	pF
Output Capacitance	C_{oss}				25	
Reverse Transfer Capacitance	C_{rss}				5	
Turn-On DelayTime	$t_{d(on)}$	$V_{DD} = 25\text{V}$, $I_D = 0.5\text{A}$, $V_{GEN} = 10\text{V}$ $R_L = 50\Omega$, $R_{GEN} = 25\Omega$			20	ns
Turn-Off DelayTime	$t_{d(off)}$				40	
Drain-source on-voltage	$V_{DS(on)}$	$V_{GS}=10\text{V}$, $I_D=100\text{mA}$			3.75	V
		$V_{GS}=5\text{V}$, $I_D=50\text{mA}$			0.5	
Diode Forward Voltage	V_{SD}	$I_S=350\text{mA}$, $V_{GS}=0\text{V}$	0.55		1.2	

Marking

Marking	K72
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N-Channel MOSFET 2KK5069

■ Typical Characteristics

