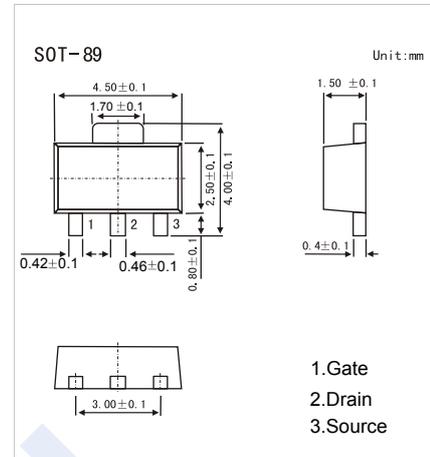
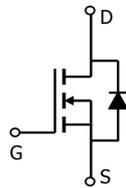


N-Channel MOSFET

KXF3055

■ Features

- $V_{DS} (V) = 60V$
- $I_D = 5.3 A (V_{GS} = 10V)$
- $R_{DS(ON)} < 60m\Omega (V_{GS} = 10V)$
- $R_{DS(ON)} < 80m\Omega (V_{GS} = 4.5V)$



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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	
Continuous Drain Current	I_D	5.3	A
Pulsed Drain Current	I_{DM}	30	
Power Dissipation	P_D	2	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

N-Channel MOSFET

KXF3055

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V _{DSS}	I _D =250 μ A, V _{GS} =0V	60			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =48V, V _{GS} =0V			0.1	μA
Gate-Body Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250 μ A	1		2.5	V
Static Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =10V, I _D =5.3A			60	m Ω
		V _{GS} =4.5V, I _D =4.7A			80	
Forward Transconductance	g _{FS}	V _{DS} =5V, I _D =4.7A	6			S
Input Capacitance	C _{iss}	V _{GS} =0V, V _{DS} =25V, f=1MHz			800	pF
Output Capacitance	C _{oss}				250	
Reverse Transfer Capacitance	C _{rss}				60	
Total Gate Charge	Q _g	V _{GS} =10V, V _{DS} =40V, I _D =4.7A		9		nC
Gate Source Charge	Q _{gs}			2		
Gate Drain Charge	Q _{gd}			6		
Turn-On DelayTime	t _{d(on)}	V _{DS} =25V, I _D =1A, R _G =6 Ω			20	ns
Turn-On Rise Time	t _r				20	
Turn-Off DelayTime	t _{d(off)}				50	
Turn-Off Fall Time	t _f				20	
Diode Forward Voltage	V _{SD}	I _S =2A, V _{GS} =0V			1.25	V

■ Marking

Marking	KA
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