

2SK655

Silicon N-Channel MOS FET

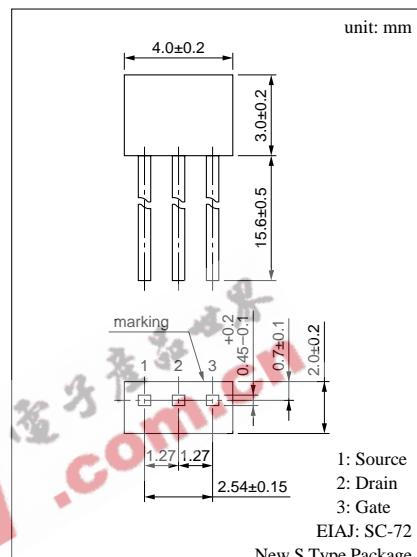
For switching

■ Features

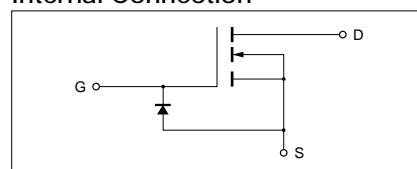
- High-speed switching
- Allowing to supply with the radial taping

■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Drain to Source voltage	V _{DS}	50	V
Gate to Source voltage	V _{GSO}	8	V
Drain current	I _D	100	mA
Max drain current	I _{DP}	200	mA
Allowable power dissipation	P _D	200	mW
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



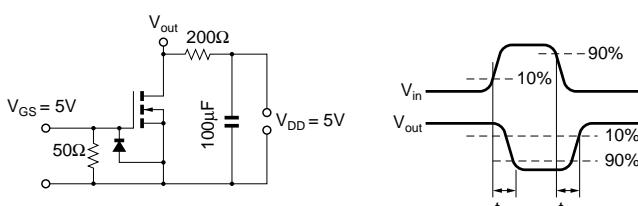
Internal Connection



■ Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source cut-off current	I _{DSS}	V _{DS} = 10V, V _{GS} = 0			10	μA
Gate to Source leakage current	I _{GSS}	V _{GS} = 8V, V _{DS} = 0			50	μA
Drain to Source breakdown voltage	V _{DSS}	I _D = 100μA, V _{GS} = 0	50			V
Gate threshold voltage	V _{th}	I _D = 100μA, V _{DS} = V _{GS}	1.5		3.5	V
Drain to Source ON-resistance	R _{DS(on)}	I _D = 20mA, V _{GS} = 5V			50	Ω
Forward transfer admittance	Y _{fs}	I _D = 20mA, V _{DS} = 5V, f = 1kHz	20	35		mS
Input capacitance (Common Source)	C _{iss}	V _{DS} = 5V, V _{GS} = 0, f = 1MHz		10	15	pF
Output capacitance (Common Source)	C _{oss}			4	5	pF
Reverse transfer capacitance (Common Source)	C _{rss}			0.5	1	pF
Turn-on time	t _{on} *	V _{DD} = 5V, V _{GS} = 0 to 5V, R _L = 200Ω		10		ns
Turn-off time	t _{off} *	V _{DD} = 5V, V _{GS} = 5 to 0V, R _L = 200Ω		20		ns

* t_{on}, t_{off} measurement circuit



Silicon MOS FETs (Small Signal)

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