

2SK655

Silicon N-Channel MOS

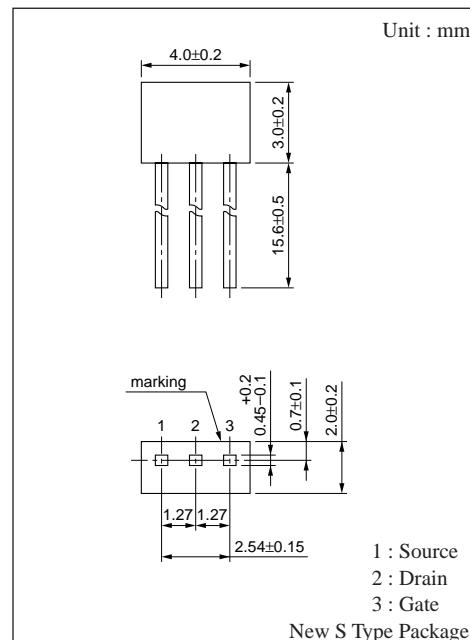
For switching

■ Features

- High-speed switching
- Radial taping possible

■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Rating	Unit
Drain-Source voltage	V _{DS}	50	V
Gate-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



■ Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Drain-Source cut-off current	I _{DSS}	V _{DS} =10V, V _{GS} = 0			10	μA
Gate-Source leakage current	I _{GSS}	V _{GS} = 8V, V _{DS} = 0			50	nA
Drain-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-Source ON-resistance	R _{DS(on)}	I _D = 20mA, V _{GS} = 5V			50	Ω
Forward transadmittance	Y _{fs}	I _D = 20mA, V _{DS} = 5V, f=1kHz	20	35		mS
Input capacitance	C _{iss}	V _{DS} = 5V, V _{GS} = 0, f=1MHz		10	15	pF
Output capacitance	C _{oss}			4	5	pF
Feedback capacitance	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

