

2SK1374

Silicon N-Channel MOS

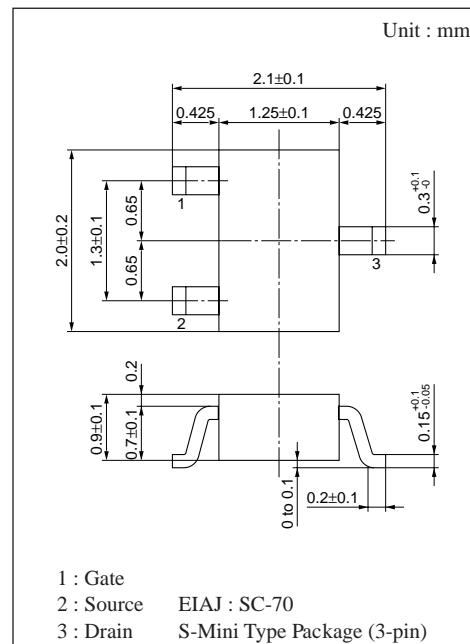
For switching

■ Features

- High-speed switching
- Wide frequency band
- Gate-protection diode built-in
- 2.5V drive possible

■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Rating	Unit
Drain-Source voltage	V _{DS}	50	V
Gate-Source voltage	V _{GSO}	10	V
Drain current	I _D	±50	mA
Max drain current	I _{DP}	±100	mA
Allowable power dissipation	P _D	150	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} = 20V, V _{GS} = 0			1	µA
Gate-Source leakage current	I _{GSS}	V _{GS} = 10V, V _{DS} = 0			1	µA
Drain-Source breakdown voltage	V _{DSS}	I _D =10µA, V _{GS} = 0	50	100		V
Gate threshold voltage	V _{th}	I _D =100µA, V _{DS} = 5V	0.5	0.8	1.1	V
Drain-Source ON-resistance	R _{DSS(on)} ^{* 1}	I _D =10mA, V _{GS} = 2.5V		27	50	Ω
Forward transadmittance	Y _{fs}	I _D =10mA, V _{DS} = 5V, f=1kHz	20	39		mS
Input capacitance	C _{iss}	V _{DS} = 5V, V _{GS} = 0, f=1MHz		4.5		pF
Output capacitance	C _{oss}			4.1		pF
Feedback capacitance	C _{rss}			1.2		pF
Turn-on time	t _{on} ^{* 2}	V _{DD} = 5V, V _{GS} = 0 to 2.5V, R _L = 470Ω		0.2		µs
Turn-off time	t _{off} ^{* 2}	V _{DD} = 5V, V _{GS} = 2.5 to 0V, R _L = 470Ω		0.2		µs

*¹ Pulse measurement

*² t_{on}, t_{off} measurement circuit

■ Marking

