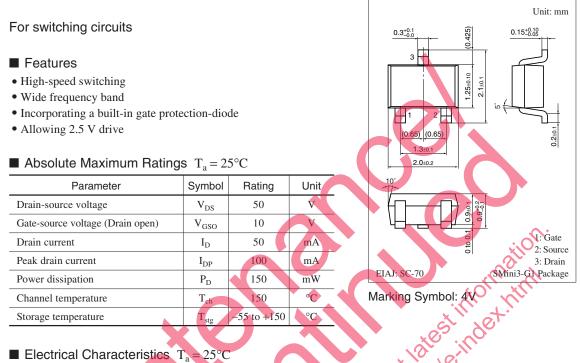
# 2SK1374

### Silicon N-channel MOSFET



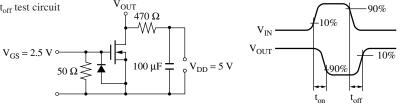
#### Electrical Characteristics T<sub>a</sub> = 25°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source surrender voltage	V <sub>DSS</sub>	$I_{\rm D} = 10 \mu A,  V_{\rm GS} = 0$	50	100		V
Drain-source cutoff current	I <sub>DSS</sub>	$V_{\rm DS} = 20  \rm V,  V_{\rm GS} = 0$			1.0	μΑ
Gate-source cutoff current	I <sub>GSS</sub>	$V_{GS} = 10 \text{ V}, V_{DS} = 0$			1.0	μΑ
Gate threshold voltage	$\mathbf{V}_{\mathrm{th}}$	$I_{\rm D} = 100 \ \mu A, \ V_{\rm DS} = 5 \ V$	0.5	0.8	1.1	V
Forward transfer admittance	Y <sub>fs</sub>	$I_{\rm D} = 10 \text{ mA}, V_{\rm DS} = 5 \text{ V}, f = 1 \text{ kHz}$	20	39		mS
Drain-source ON resistance	R <sub>DS(on)</sub>	$I_D = 10 \text{ mA}, V_{GS} = 2.5 \text{ V}$		27	50	Ω
Short-circuit forward transfer capacitance (Common source)	C <sub>iss</sub>	$V_{BS} = 5 V$ , $V_{SS} = 0$ , f = 1 MHz		4.5		pF
Short-circuit output capacitance (Common source)	Coss	it anas		4.1		pF
Reverse transfer capacitance (Common source)	C <sub>rss</sub>	Ś.,		1.2		pF
Turn-on time <sup>*1, 2</sup>	t <sub>on</sub>	$V_{DD}$ = 5 V, $R_L$ = 470 $\Omega,V_{GS}$ = 0 V to 2.5 V		0.2		μs
Turn-off time *1, 2	t <sub>off</sub>	$V_{DD}$ = 5 V, $R_L$ = 470 $\Omega,$ $V_{GS}$ = 2.5 V to 0 V		0.2		μs

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

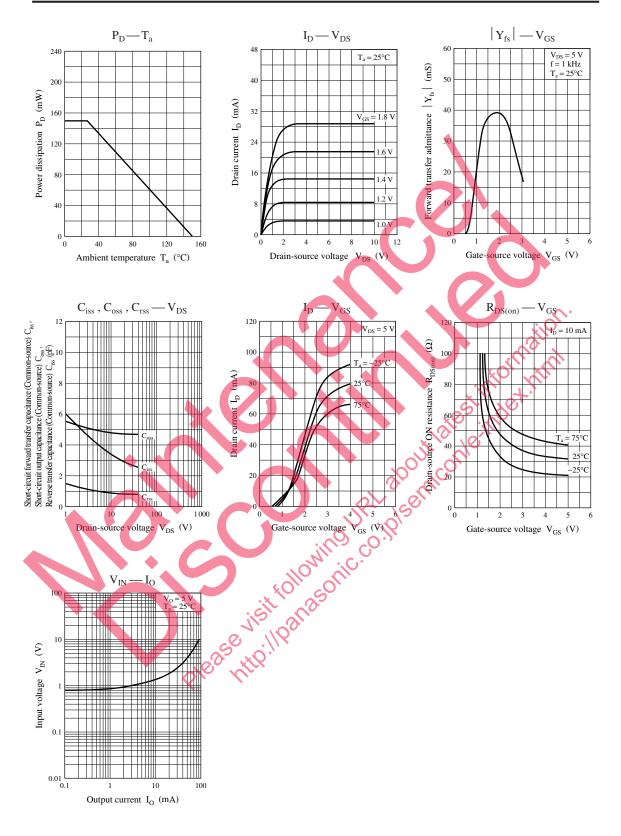
#### 2. \*1: Pulse measurement

\*2: ton , toff test circuit



### 2SK1374

## Panasonic



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