# 2SK3064

# Silicon N-Channel MOS FET

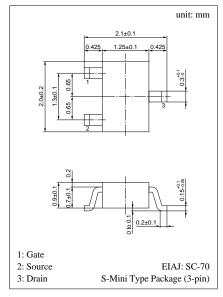
Secondary battery pack (Li ion battery, etc.) For switching

#### ■ Features

- High-speed switching
- S-mini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing.
- Low-voltage drive  $(V_{th}: -1 \text{ to } 2V)$
- Low Ron

## ■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Ratings	Unit	
Drain to Source voltage	V <sub>DS</sub>	30	V	
Gate to Source voltage	V <sub>GSO</sub>	±20	V	
Drain current	$I_{\mathrm{D}}$	100	mA	
Max drain current	I <sub>DP</sub>	200	mA	
Allowable power dissipation	P <sub>D</sub>	150	mW	
Channel temperature	T <sub>ch</sub>	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

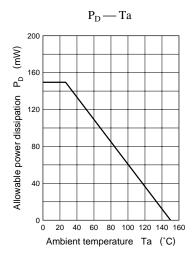


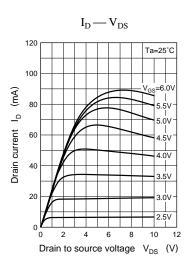
Marking Symbol: 2D

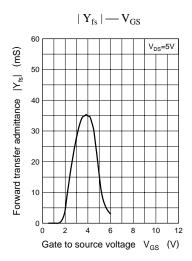
### ■ Electrical Characteristics (Ta = 25°C)

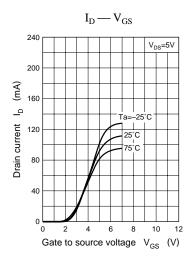
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain current	I <sub>DSS</sub>	$V_{DS} = 30V, V_{GS} = 0$			0.1	μΑ
Gate cut-off current	I <sub>GSS</sub>	$V_{GS} = \pm 20V, V_{DS} = 0$			±1	μΑ
Gate threshold voltage	V <sub>th</sub>	$V_{DS} = 5V, I_D = 1\mu A$	1		2	V
Forward transfer admittance	Y <sub>fs</sub>	$V_{DS} = 5V$ , $I_D = 10mA$	15			mS
Drain to source ON-resistance	R <sub>DS(on)</sub>	$V_{DS} = 5V$ , $I_D = 10mA$		30	50	Ω
Turn-on time	t <sub>on</sub>	$V_{DD} = 5V$ , $V_{GS} = 0$ to $5V$ , $R_L = 200\Omega$		150		ns
Turn-off time	t <sub>off</sub>	$V_{DD} = 5V$ , $V_{GS} = 0$ to $5V$ , $R_L = 200\Omega$		35		ns

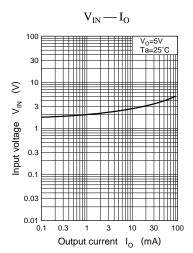
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