2SK3064

Silicon N-Channel MOS FET

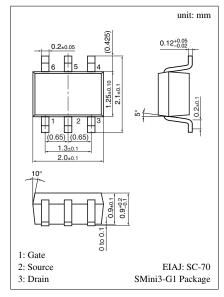
Secondary battery pack (Li ion battery, etc.) For switching

■ 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 _{DS}	30	V	
Gate to Source voltage	V _{GSO}	±20	V	
Drain current	I_D	100	mA	
Max drain current	I_{DP}	200	mA	
Allowable power dissipation	P _D	150	mW	
Channel temperature	T _{ch}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

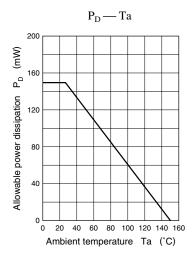


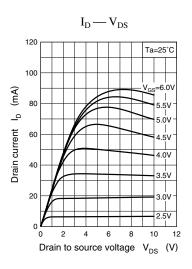
Marking Symbol: 2D

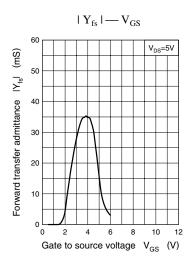
■ Electrical Characteristics (Ta = 25°C)

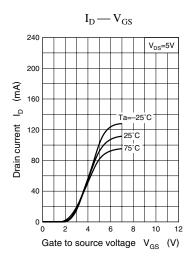
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain current	I _{DSS}	$V_{DS} = 30V, V_{GS} = 0$			0.1	μΑ
Gate cut-off current	I _{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0$			±1	μΑ
Gate threshold voltage	V _{th}	$V_{DS} = 5V$, $I_D = 1\mu A$	1		2	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 5V$, $I_D = 10mA$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

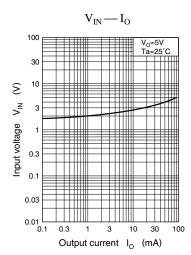
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