

2SK3064

Silicon N-Channel MOS FET

Secondary battery pack (Li ion battery, etc.)

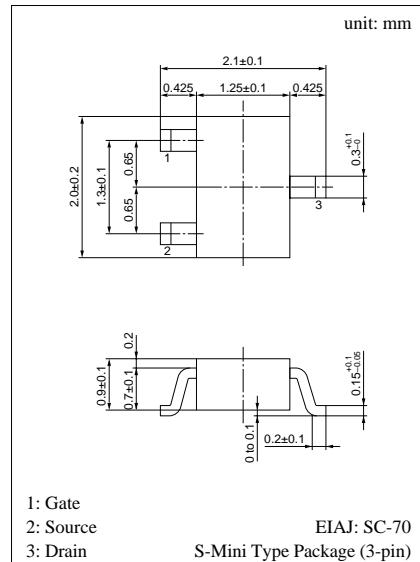
For switching

■ 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 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	μA
Gate cut-off current	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0$			± 1	μA
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

