

## 2SK3064

## Silicon N-Channel MOS FET

Secondary battery pack (Li ion battery, etc.)

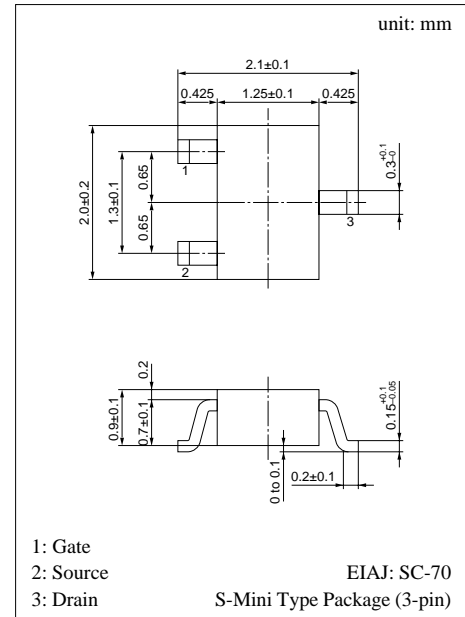
For switching

## ■ 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 ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Ratings	Unit
Drain to Source voltage	$V_{DS}$	30	V
Gate to Source voltage	$V_{GSO}$	$\pm 20$	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	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$



Marking Symbol: 2D

■ Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

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

