# 2SJ0536

### Silicon P-Channel MOS FET

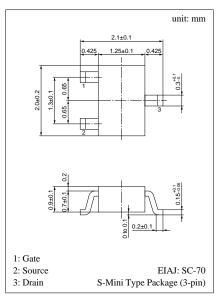
Secondary battery pack (Li ion battery, etc.) For switching

#### 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

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 <sub>D</sub>	-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				

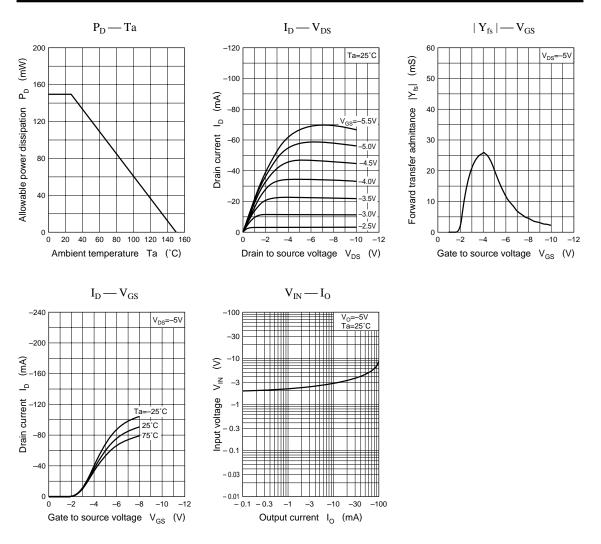
#### ■ Absolute Maximum Ratings (Ta = 25°C)



#### Marking Symbol: 2C

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	$ \mathbf{Y}_{\mathrm{fs}} $	$V_{DS} = -5V, I_D = -10mA$	8			mS
Drain to source ON-resistance	R <sub>DS(on)</sub>	$V_{GS} = -5V, I_D = -10mA$		50	75	Ω
Turn-on time	t <sub>on</sub>	$V_{DD} = -5V$ , $V_{GS} = -5$ to $0V$ , $R_L = 200\Omega$		100		μs
Turn-off time	t <sub>off</sub>	$V_{DD} = -5V$ , $V_{GS} = -5$ to $0V$ , $R_L = 200\Omega$		25		μs

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



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