Doc No. TT4-EA-12592

Revision. 2

MOS FET

FK3306010L

## **Panasonic**

## FK3306010L

Silicon N-channel MOSFET

For switching FK350601 in SSSMini3 type package

#### ■ Features

 Low drive voltage: 2.5 V drive
 Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: CV

Established: 2010-05-20

: 2013-08-08

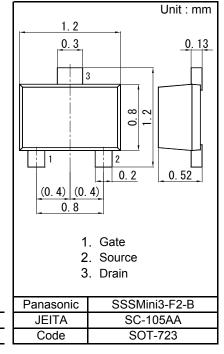
Revised

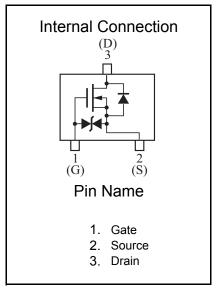
#### ■ Packaging

Embossed type (Thermo-compression sealing):10 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Drain-source voltage	VDS	60	V
Gate-source voltage	VGS	±12	V
Drain current	ID	100	mA
Pulse drain current	IDp	200	mA
Total power dissipation	PD	100	mW
Channel temperature	Tch	150	°C
Operating Ambient Temperature	Tstg	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C





MOS FET

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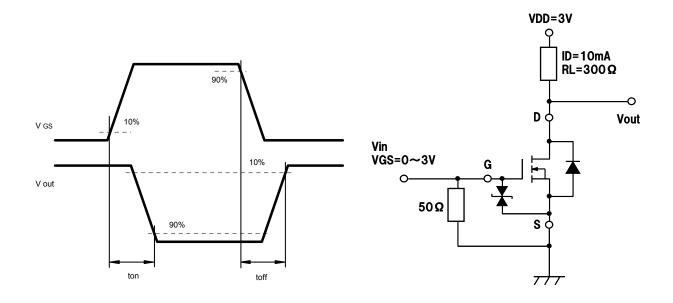
# **Panasonic**

### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source breakdown voltage	VDSS	ID = 1 mA, VGS = 0	60			V
Drain-source cutoff current	IDSS	VDS = 60 V, VGS = 0			1.0	μΑ
Gate-source cutoff current	IGSS	VGS = ±10 V, VDS = 0			±10	μΑ
Gate threshold voltage	VTH	ID = 1.0 μA, VDS = 3.0 V	0.9	1.2	1.5	V
Drain-source ON resistance	RDS(on)1	ID = 10 mA, VGS = 2.5 V		8	15	Ω
	RDS(on)2	ID = 10 mA, VGS = 4.0 V		6	12	Ω
Forward transfer admittance	Yfs	ID = 10 mA, VDS = 3 V, f = 1 kHz	20	60		mS
Input capacitance	Ciss			12		pF
Output capacitance	Coss	VDS = 3 V, VGS = 0, f = 1 MHz		7		pF
Reverse transfer capacitance	Crss			3		pF
Turn-on time *1	ton	VDD = 3 V, VGS = 0 to 3 V, RL = $300 \Omega$		100		ns
Turn-off time *1	toff	VDD = 3 V, VGS = 3 to 0 V, RL = $300 \Omega$		100		ns

1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

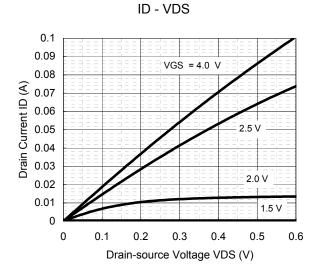
2. \*1 Turn-on and Turn-off test circuit

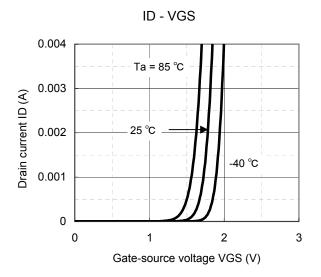


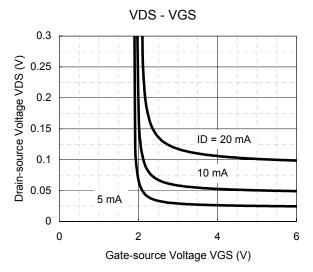
Established: 2010-05-20 Revised

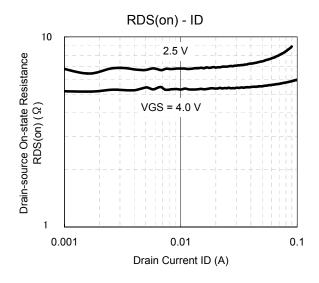
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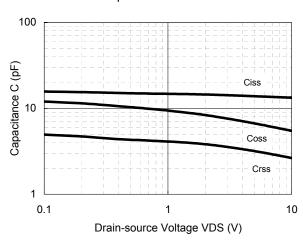








Capiacitance - VDS

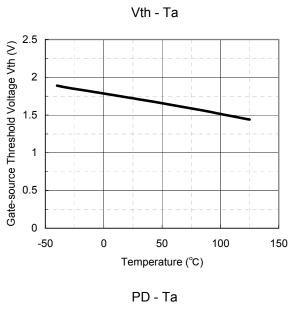


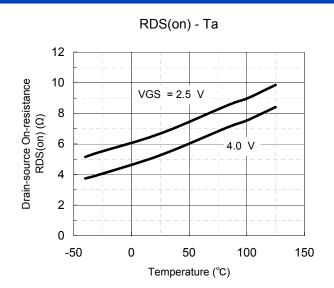
Page 3 of 5

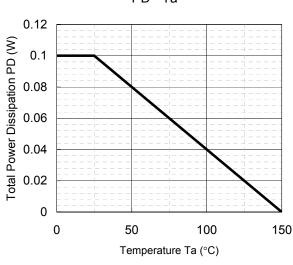
Established: 2010-05-20 Revised

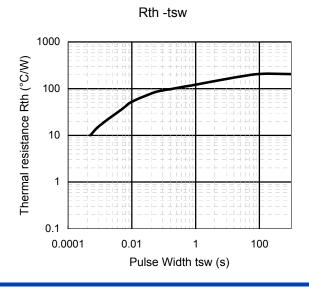
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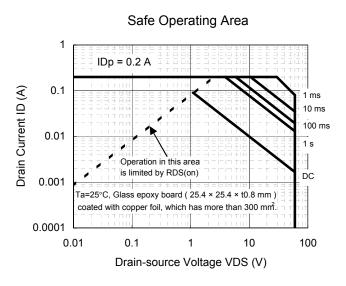
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Page 4 of 5

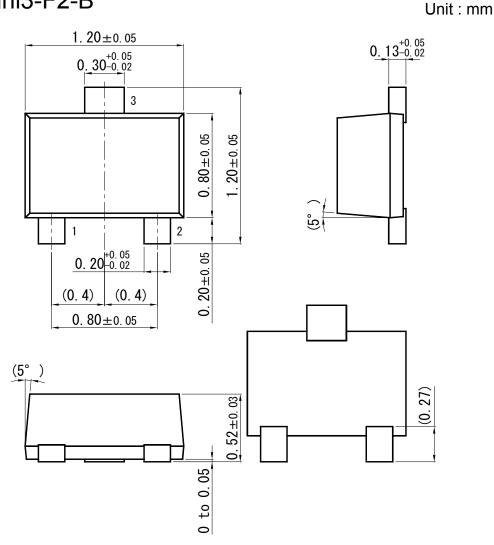
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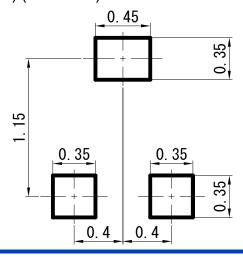
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## SSSMini3-F2-B



### ■ Land Pattern (Reference) (Unit: mm)



Page 5 of 5

Established: 2010-05-20 Revised: 2013-08-08

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