# MOS FET

### Panasonic

#### FK3303010L Silicon N-channel MOS FET

For switching FK350301 in SSSMini3 type package

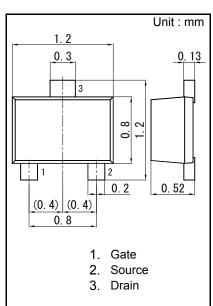
#### Features

- Low drive voltage: 2.5 V drive
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol X1
- Packaging

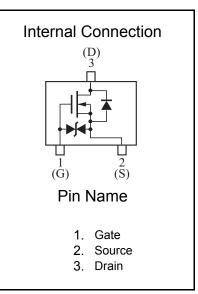
Embossed type (Thermo-compression sealing): 10 000 pcs / reel (standard)

Absolute	Maximum	Ratings	Ta = 25 °C
	Maximum	raungo	10 - 20 0

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Parameter	Symbol	Rating	Unit	
Drain-source voltage	VDSS	30	V	
Gate-source voltage	VGSS	±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	Topr	-40 to +85	°C	
Storage temperature	Tstg	-55 to +150	°C	



Panasonic	SSSMini3-F2-B	
JEITA	SC-105AA	
Code	SOT-723	



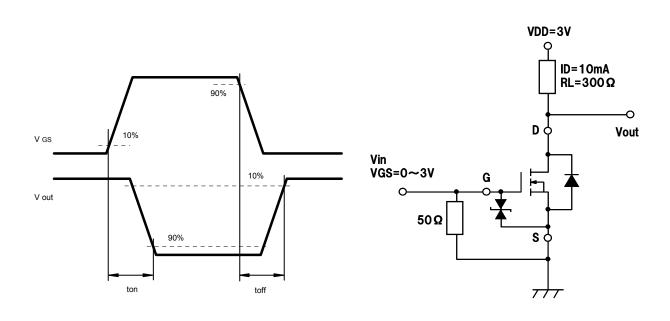


■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source breakdown voltage	VDSS	ID = 1 mA, VGS = 0	30			V
Drain-source cutoff current	IDSS	VDS = 30 V, VGS = 0			1.0	μA
Gate-source cutoff current	IGSS	VGS = ±10 V, VDS = 0			±10	μA
Gate threshold voltage	VTH	ID = 1.0 μA, VDS = 3.0 V	0.5	1.0	1.5	V
Drain-source on-state resistance	RDS(on)1	ID = 10 mA, VGS = 2.5 V		3	6	Ω
Drain-source on-state resistance	RDS(on)2	ID = 10 mA, VGS = 4.0 V		2	3	Ω
Forward transfer admittance	Yfs	ID = 10 mA, VDS = 3.0 V	20	55		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 <sup>*1</sup>	ton	VDD = 3 V, VGS = 0 to 3 V		100		ns
		RL = 300 Ω		100		115
Turn-off time <sup>*1</sup>	toff	VDD = 3 V, VGS = 3 to 0 V	100	100		ns
i um-on ume		RL = 300 Ω		100		

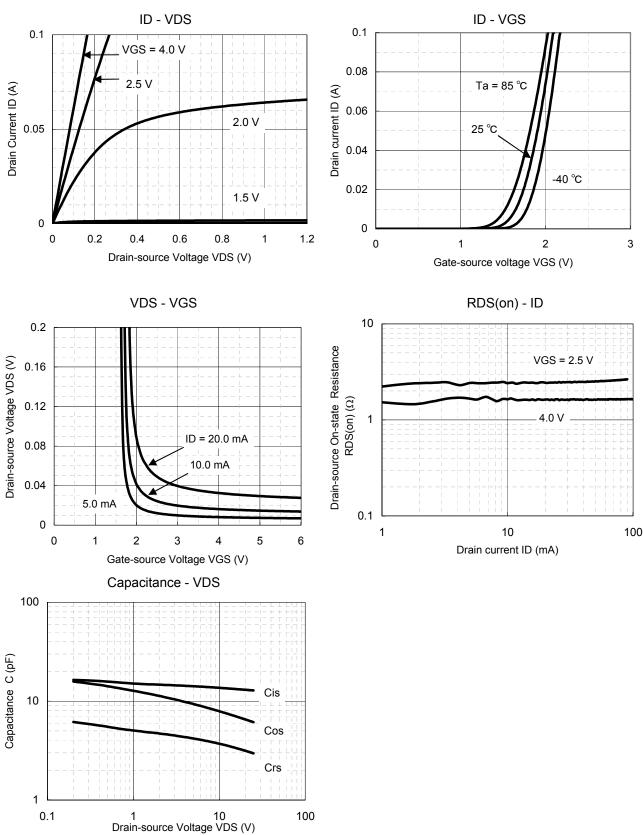
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

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



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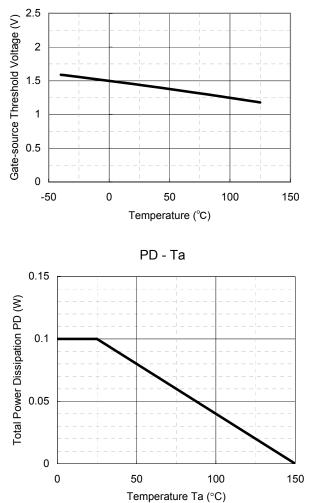


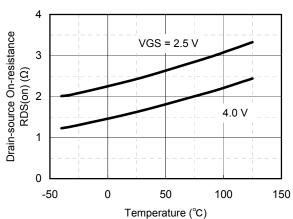
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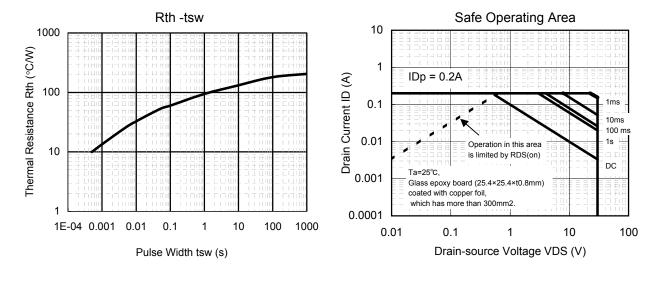




RDS(on) - Ta





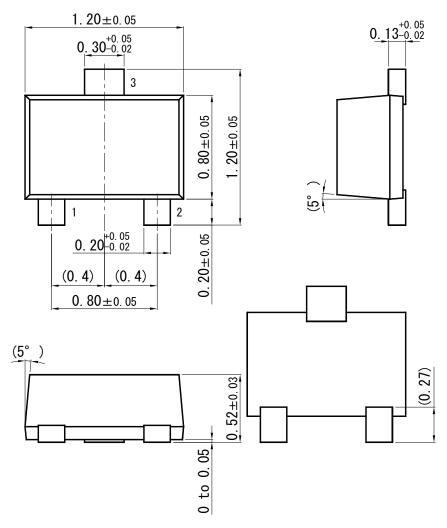


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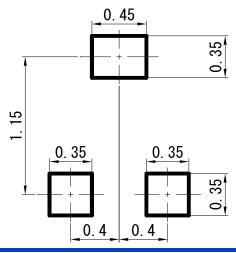


#### SSSMini3-F2-B

Unit : mm



■ Land Pattern (Reference) (Unit: mm)



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