# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





## MOS FET FK3303010L

## FK3303010L Silicon N-channel MOS FET

For switching

FK350301 in SSSMini3 type package

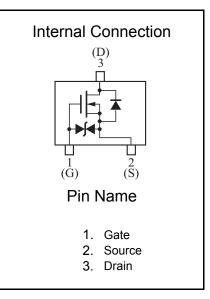
#### Features

- 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)

	Unit : mm					
1.2 0.3 (0.4) (0.4) 0.8						
<ol> <li>Gate</li> <li>Source</li> <li>Drain</li> </ol>						
Panasonic	SSSMini3-F2-B					
JEITA	SC-105AA					
Code	SOT-723					



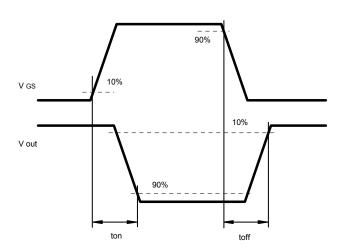
Parameter	Symbol	Rating	Unit
Drain-source voltage	VDSS	30	V
Gate-source voltage	VGSS	±12	V
Drain current	ID	100	mA
Pulse drain current	IDp	200	mA
Total power dissipation	PD	100	mW
Channel temperature	Tch	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	С°

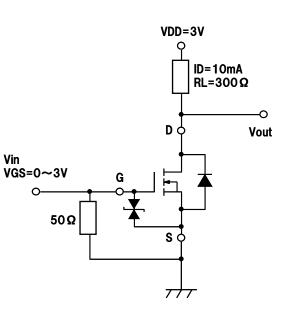
## Panasonic

## MOS FET FK3303010L

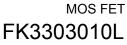
Electrical Characteristics Ta = 25 °C	± 3 °C					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source breakdown voltage	VDSS	ID = 1 mA, VGS = 0	30			V
Drain-source cutoff current	IDSS	VDS = 30 V, VGS = 0			1.0	μA
Gate-source cutoff current	IGSS	VGS = ±10 V, VDS = 0			±10	μA
Gate threshold voltage	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
	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	VDS = 3 V, VGS = 0, f = 1 MHz		12		рF
Output capacitance	Coss			7		рF
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				
Turn-off time <sup>*1</sup>	toff	VDD = 3 V, VGS = 3 to 0 V		100		20
		RL = 300 Ω				ns

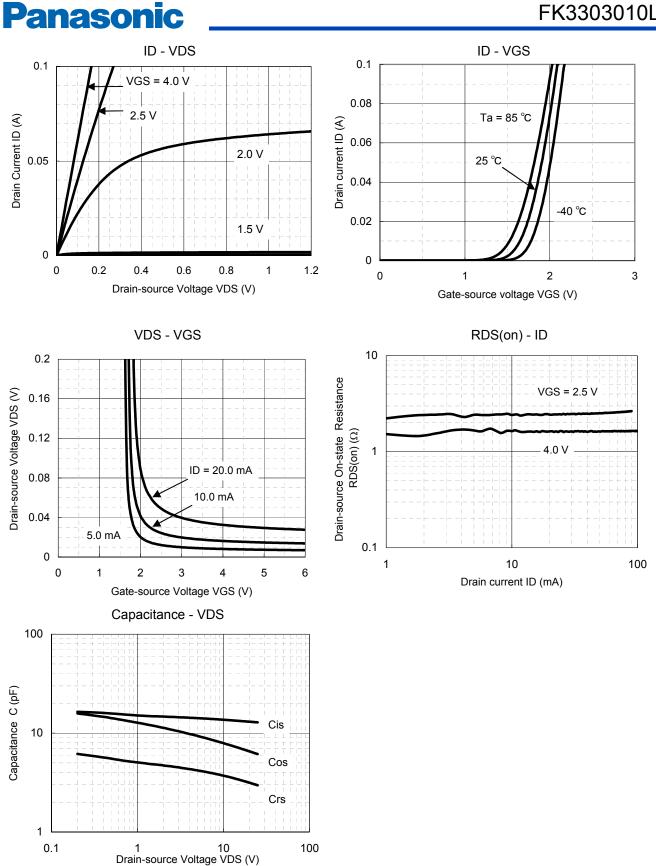
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.
 2. \*1 Turn-on and Turn-off test circuit







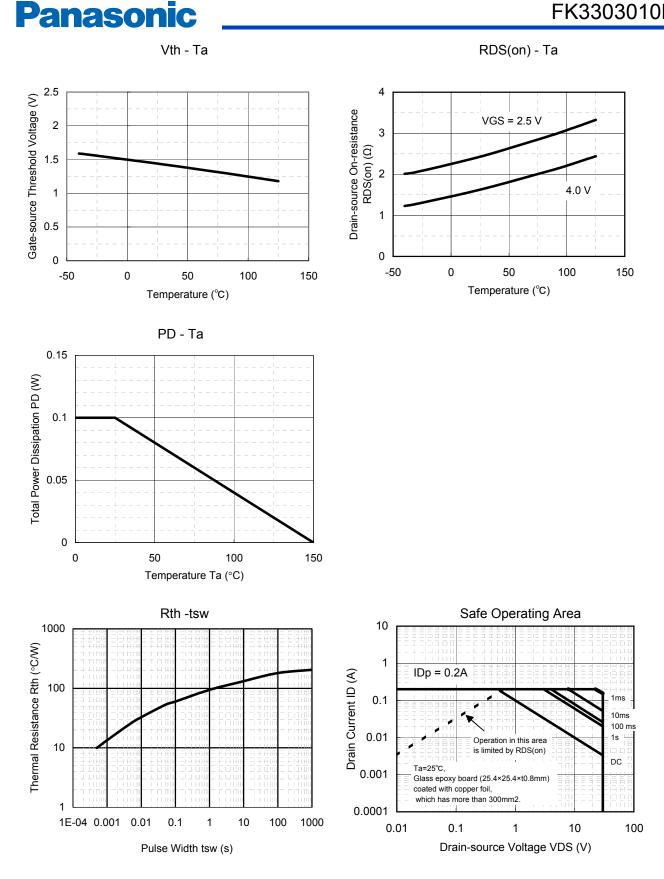




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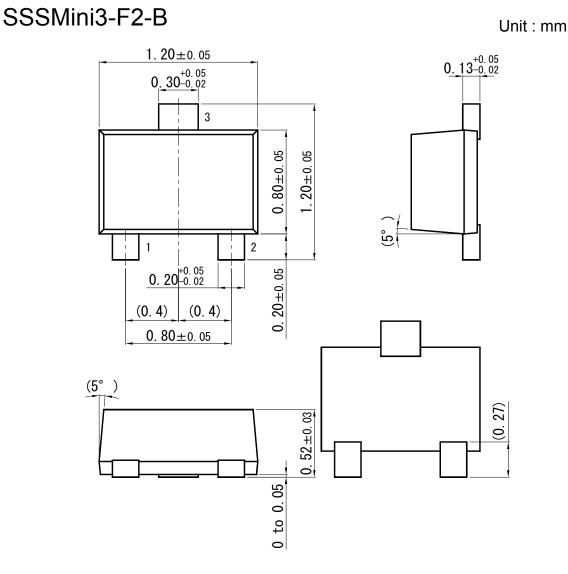
## MOS FET FK3303010L



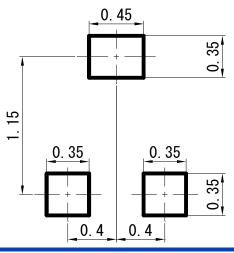
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MOS FET FK3303010L



■ Land Pattern (Reference) (Unit: mm)



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