

#### MOS FET FK3506010L

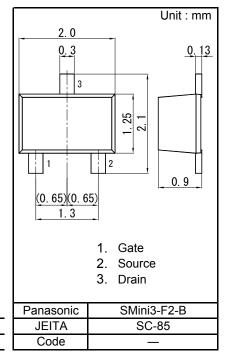
FK3506010L Silicon N-channel MOS FET

For switching

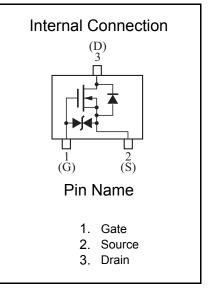
FK330601 in SMini3 type package

- 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
- Packaging

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



#### Absolute Maximum Ratings Ta = 25 °C Parameter Symbol Rating Unit Drain-source voltage VDS 60 V VGS V Gate-source voltage ±12 100 Drain current ID mΑ 200 Pulse drain current IDp mΑ Total power dissipation PD 150 mW Channel temperature Tch 150 °C Operating ambient temperature Topr -40 to +85 °C Tstg -55 to +150 °C Storage temperature

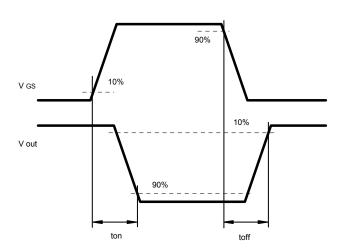


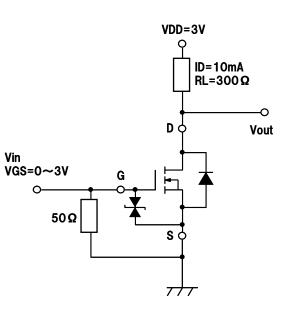
# **Panasonic**

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■ 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	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	0.9	1.2	1.5	V
Drain-source ON resistance	RDS(on)	ID = 10 mA, VGS = 2.5 V		8	15	Ω
		ID = 10 mA, VGS = 4.0 V		6	12	Ω
Forward transfer admittance	Yfs	ID = 10 mA, VDS = 3.0 V	20	60		mS
Input capacitance	Ciss	VDS = 3 V, VGS = 0, f = 1 MHz		12		pF
Output capacitance	Coss			7		pF
Reverse transfer capacitance	Crss			3		рF
Turn-on time <sup>*1</sup>	ton	VDD = 3 V, VGS = 0 to 3 V,	100	100		ns
		ID = 10 mA		100		
Turn-off time <sup>*1</sup>	toff	VDD = 3 V, VGS = 3 to 0 V,		100		ns
		ID = 10 mA				115

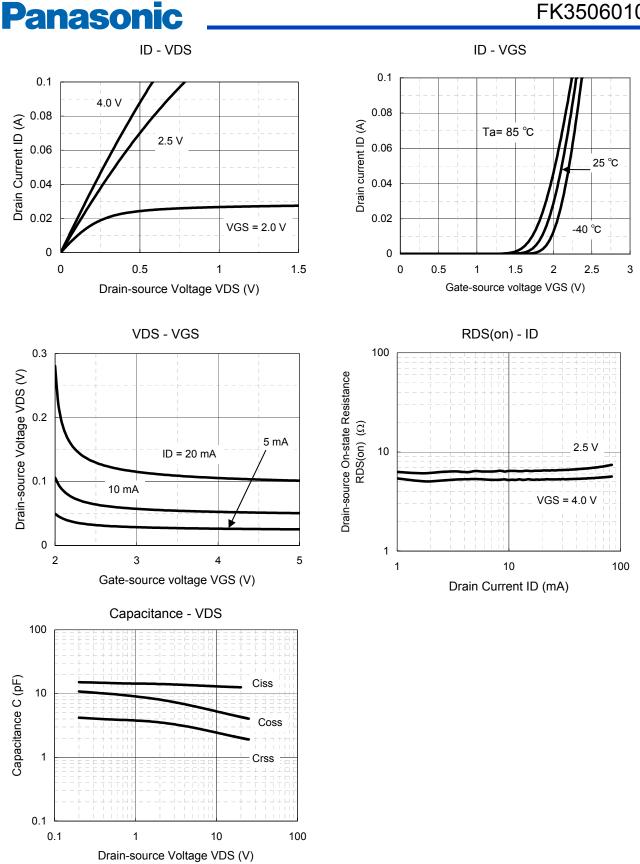
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.
2. \*1 Turn-on and Turn-off test circuit



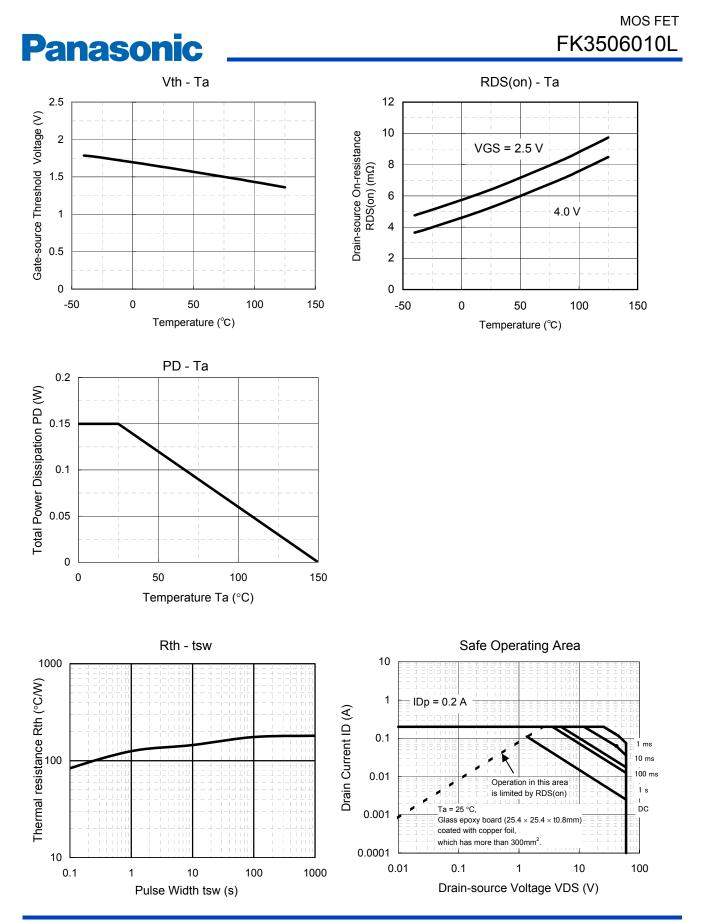




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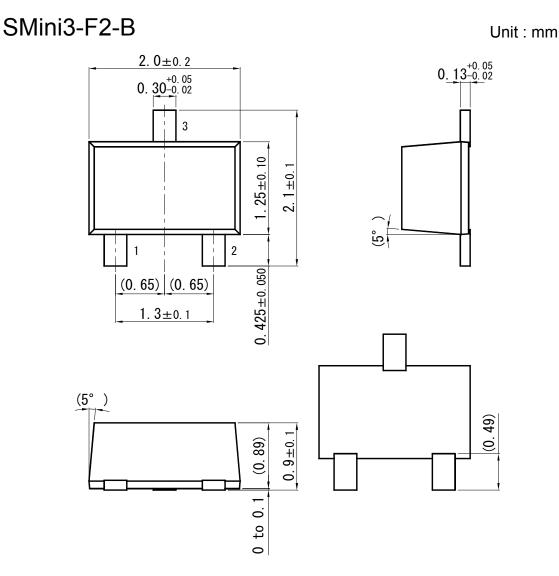




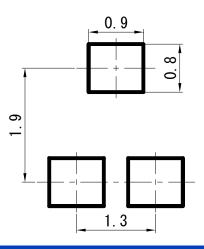
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MOS FET FK3506010L



■ Land Pattern (Reference) (Unit : mm)



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(6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.

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