Doc No. TT4-EA-12578

Revision. 2

Panasonic

MOS FET

FC6943010R

FC6943010R

Dual N-channel MOS FET

For switching

Features

Low drive voltage: 2.5 V driveHalogen-free / RoHS compliant

(EU RoHS / UL-94 V-0 / MSL : Level 1 compliant)

■ Marking Symbol : V4

Established: 2010-05-17

: 2013-07-01

Revised

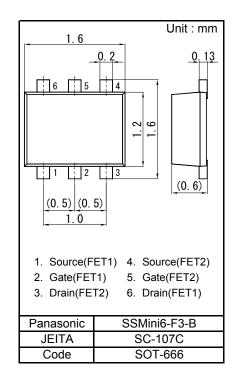
■ Basic Part Number : Dual FK330301 (Individual)

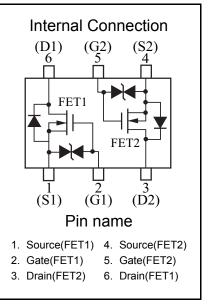
■ Packaging

Embossed type (Thermo-compression sealing): 8 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

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
Overall	Total power dissipation	PT	125	mW
	Channel temperature	Tch	150	°C
	Operating ambient temperature	Topr	-40 to +85	°C
	Storage temperature	Tsta	-55 to +150	°C





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■ Electrical Characteristics Ta = 25 °C ± 3 °C FET1,FET2

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	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	0.5	1.0	1.5	V
Drain-source ON resistance	RDS(on)1	ID = 10 mA, VGS = 2.5 V		3	6	Ω
Diain-source On 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 *1	ton	VDD = 3 V, VGS = 0 to 3 V ID = 10 mA		100		ns
Turn-off time *1	toff	VDD = 3 V, VGS = 3 to 0 V ID = 10 mA		100		ns

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

Established: 2010-05-17

Revised

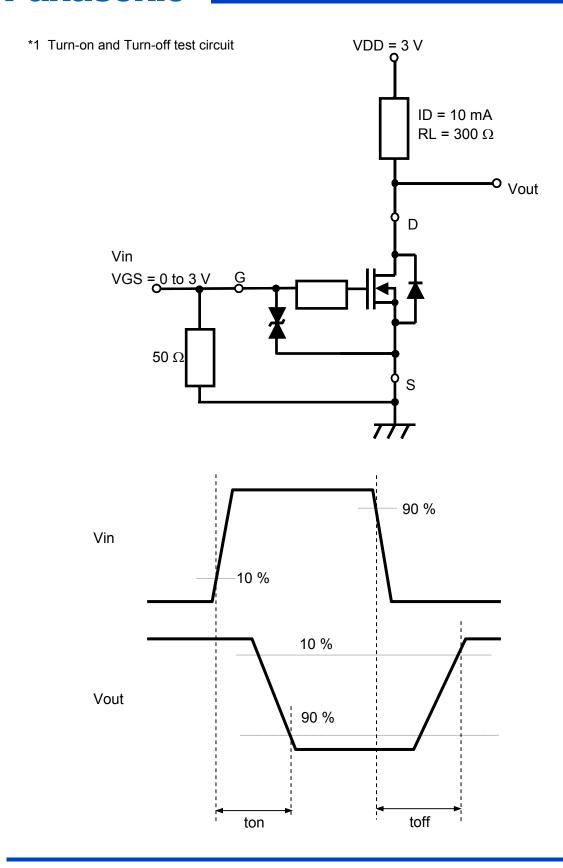
: 2013-07-01

^{2. *1} Turn-on and Turn-off test circuit

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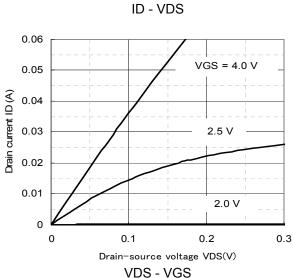


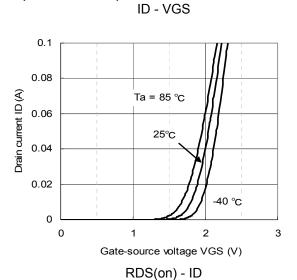
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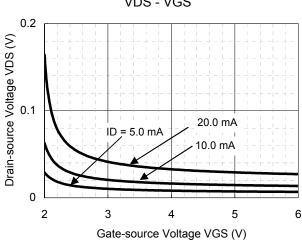
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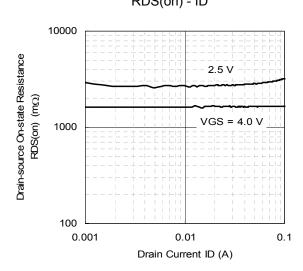
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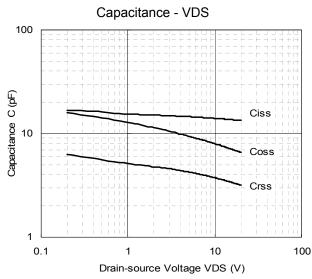
Technical Data (reference)











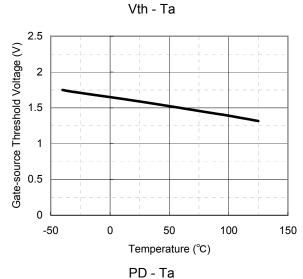
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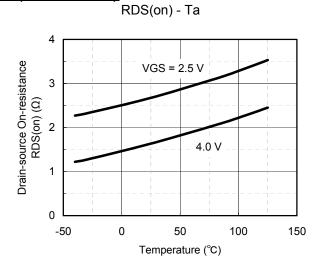
Panasonic

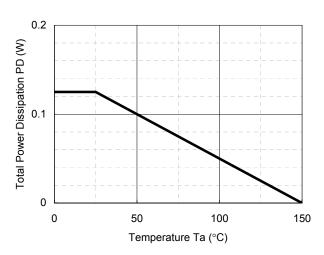
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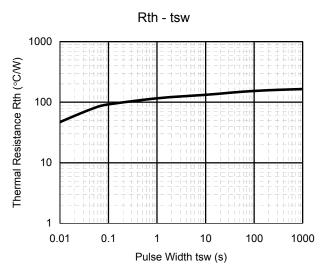
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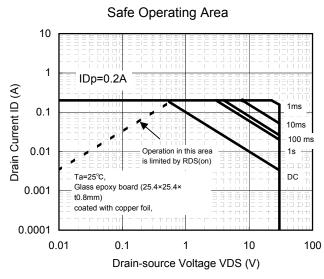
Technical Data (reference)











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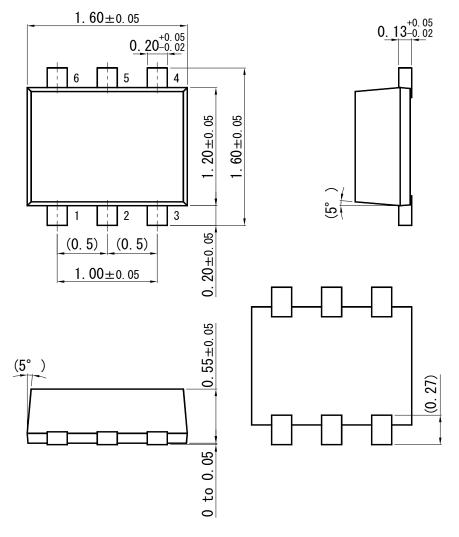
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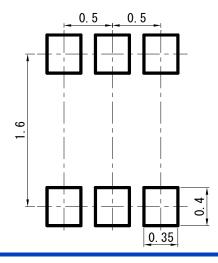
SSMini6-F3-B

Panasonic

Unit: mm



■ Land Pattern (Reference) (Unit : mm)



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