Notification about the transfer of the semiconductor business

The semiconductor business of Panasonic Corporation was transferred on September 1, 2020 to Nuvoton Technology Corporation (hereinafter referred to as "Nuvoton"). Accordingly, Panasonic Semiconductor Solutions Co., Ltd. became under the umbrella of the Nuvoton Group, with the new name of Nuvoton Technology Corporation Japan (hereinafter referred to as "NTCJ").

In accordance with this transfer, semiconductor products will be handled as NTCJ-made products after September 1, 2020. However, such products will be continuously sold through Panasonic Corporation.

Publisher of this Document is NTCJ.

If you would find description "Panasonic" or "Panasonic semiconductor solutions", please replace it with NTCJ.

* Except below description page

"Request for your special attention and precautions in using the technical information and semiconductors described in this book"

Nuvoton Technology Corporation Japan



MOS FET FC6943010R

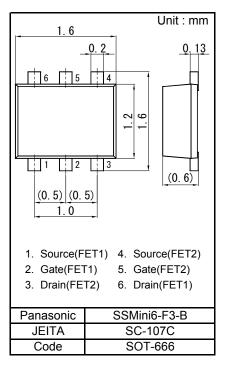
FC6943010R Dual N-channel MOS FET

For switching

- Features
- Low drive voltage: 2.5 V drive
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL : Level 1 compliant)
- Marking Symbol : V4
- Basic Part Number : Dual FK330301 (Individual)

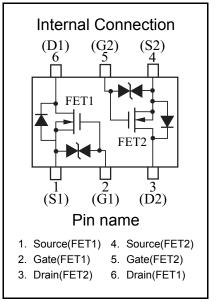
Packaging

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	Tstg	-55 to +150	О°	





MOS FET FC6943010R

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

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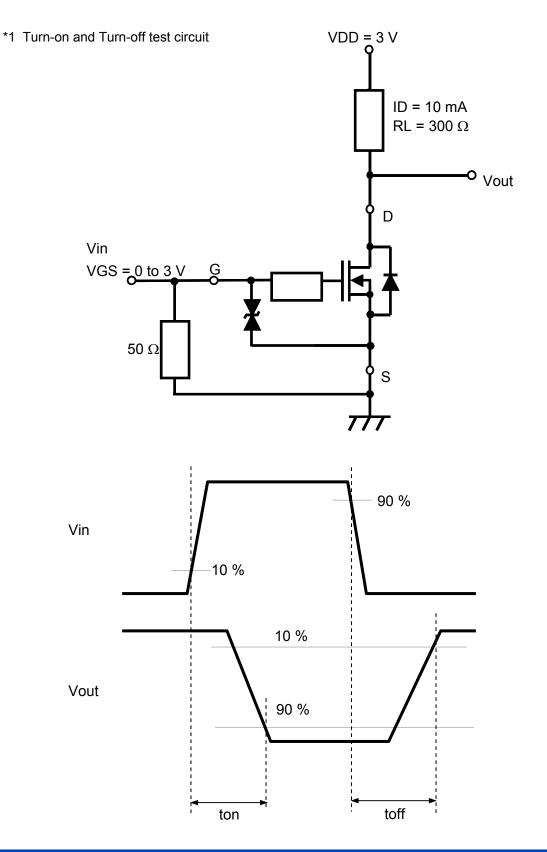
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source breakdown voltage	VDSS	ID = 1 mA, VGS = 0	30			V
Drain-source cutoff current	IDSS	VDS = 30 V, VGS = 0			1.0	μA
Gate-source cutoff current	IGSS	VGS = ±10 V, VDS = 0			±10	μA
Gate threshold voltage	VTH	ID = 1.0 μA, VDS = 3.0 V	0.5	1.0	1.5	V
Drain-source ON resistance	RDS(on)1	ID = 10 mA, VGS = 2.5 V		3	6	Ω
Dialit-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.
2. *1 Turn-on and Turn-off test circuit

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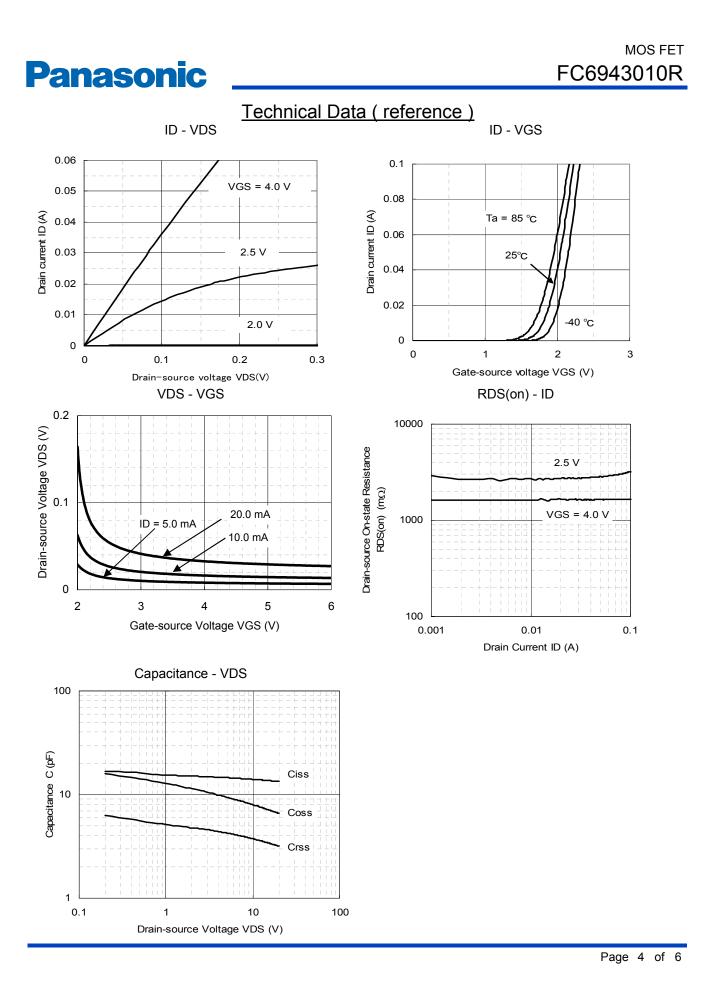


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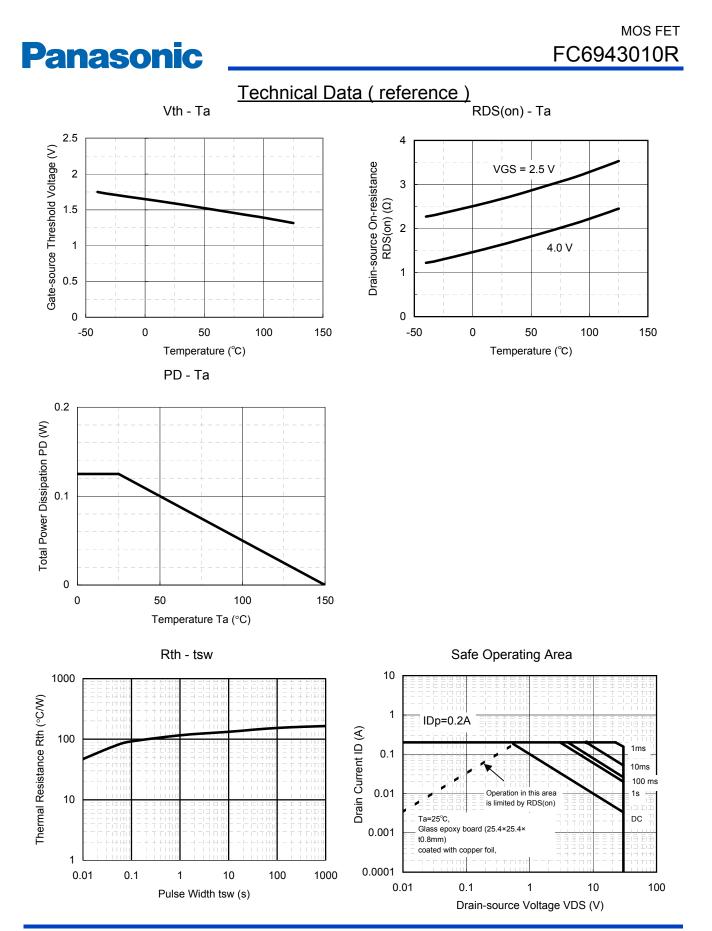


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Established : 2010-05-17 Revised : 2013-07-01







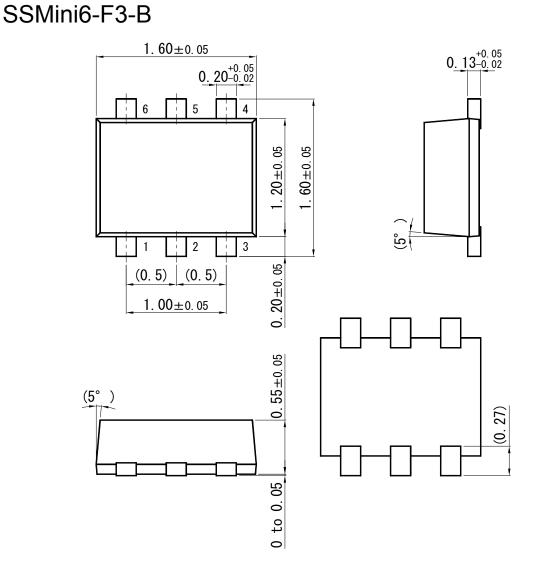
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Established : 2010-05-17 Revised : 2013-07-01

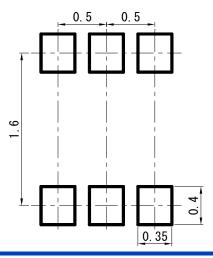


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Unit: mm



■ Land Pattern (Reference) (Unit : mm)



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