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 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)

Absolute Maximum Ratings Ta = 25 °C

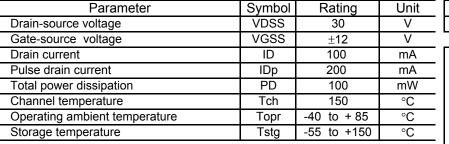
Marking Symbol X1

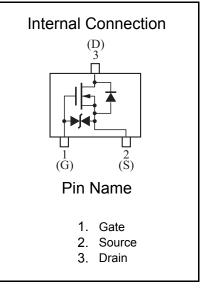
Packaging

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

		Unit : mm			
1.2 0.3 1 1 (0.4) (0.					
 Gate Source Drain 					
Panasonic	SSSMini3-F2-B				
JEITA	SC-105AA				
Code	SOT-723				

Г



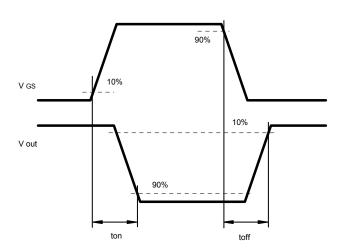


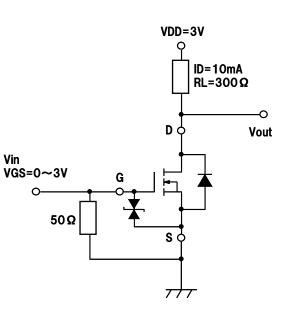
Panasonic

MOS FET FK3303010L

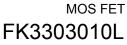
Electrical Characteristics Ta = 25 °C	± 3 °C					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source breakdown voltage	VDSS	ID = 1 mA, VGS = 0	30			V
Drain-source cutoff current	IDSS	VDS = 30 V, VGS = 0			1.0	μA
Gate-source cutoff current	IGSS	VGS = ±10 V, VDS = 0			±10	μA
Gate threshold voltage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

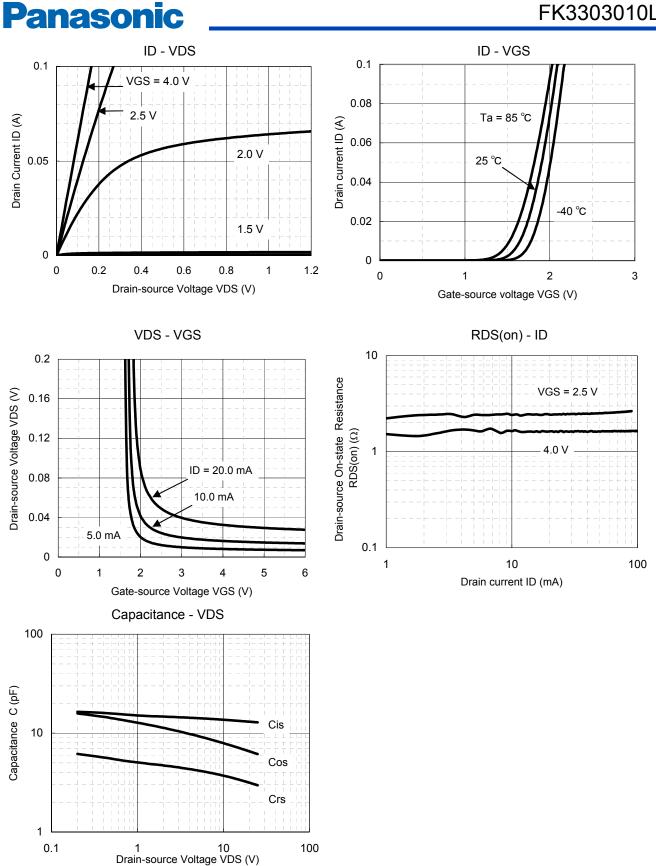
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.
 2. *1 Turn-on and Turn-off test circuit







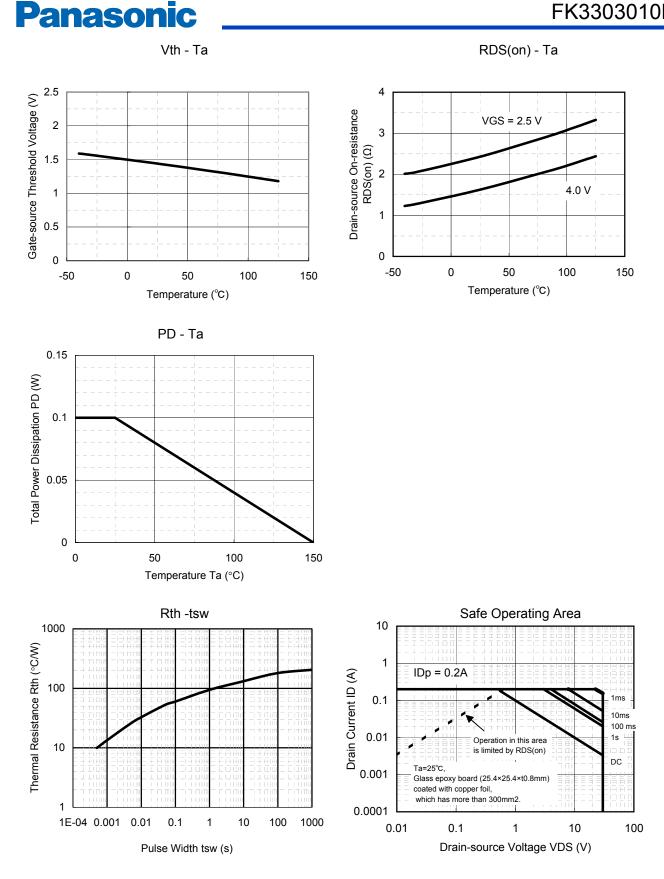




Established : 2010-05-17 Revised : 2013-06-24



MOS FET FK3303010L

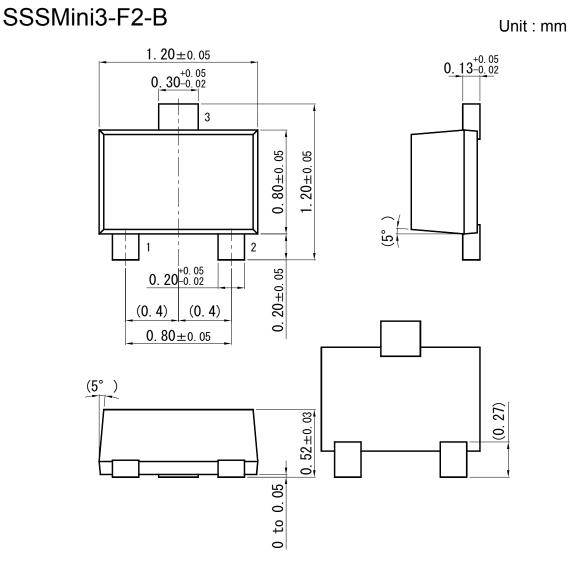


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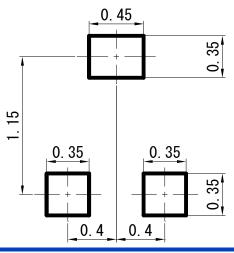
Established : 2010-05-17 Revised : 2013-06-24



MOS FET FK3303010L



■ Land Pattern (Reference) (Unit: mm)



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- (3) The products described in this book are intended to be used for general applications (such as office equipment, communications equipment, measuring instruments and household appliances), or for specific applications as expressly stated in this book.

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