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

Doc No. TT4-EA-12592

Revision. 2

MOS FET

FK3306010L

Panasonic

FK3306010L

Silicon N-channel MOSFET

For switching FK350601 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: CV

Established: 2010-05-20

Revised

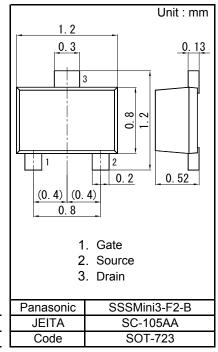
: 2013-08-08

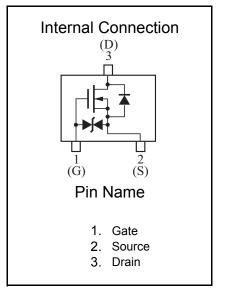
■ Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

Symbol	Rating	Unit
VDS	60	V
VGS	±12	V
ID	100	mA
IDp	200	mA
PD	100	mW
Tch	150	°C
Tstg	-40 to +85	°C
Tstg	-55 to +150	°C
	VDS VGS ID IDp PD Tch Tstg	VDS 60 VGS ±12 ID 100 IDp 200 PD 100 Tch 150 Tstg -40 to +85





MOS FET

FK3306010L

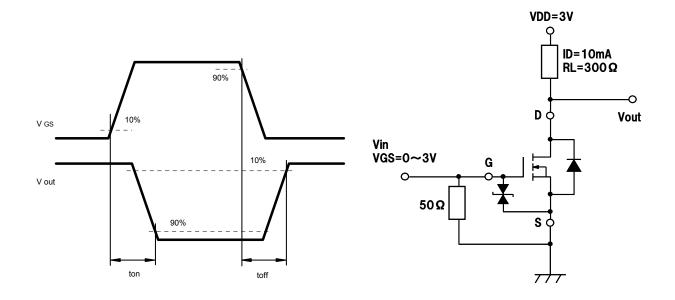
Panasonic

■ 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	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	0.9	1.2	1.5	V
Drain-source ON resistance	RDS(on)1	ID = 10 mA, VGS = 2.5 V		8	15	Ω
	RDS(on)2	ID = 10 mA, VGS = 4.0 V		6	12	Ω
Forward transfer admittance	Yfs	ID = 10 mA, VDS = 3 V, f = 1 kHz	20	60		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, RL = 300Ω		100		ns
Turn-off time *1	toff	VDD = 3 V, VGS = 3 to 0 V, RL = 300 Ω		100		ns

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

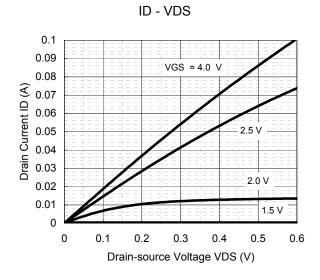
2. *1 Turn-on and Turn-off test circuit

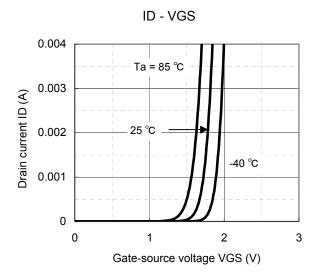


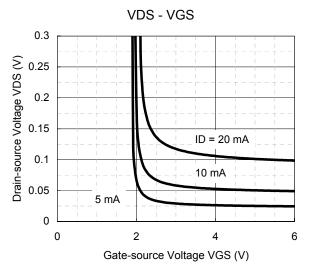
Established: 2010-05-20 Revised

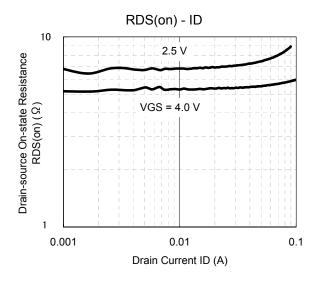
MOS FET FK3306010L



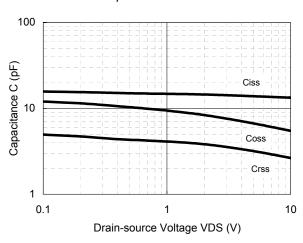








Capiacitance - VDS

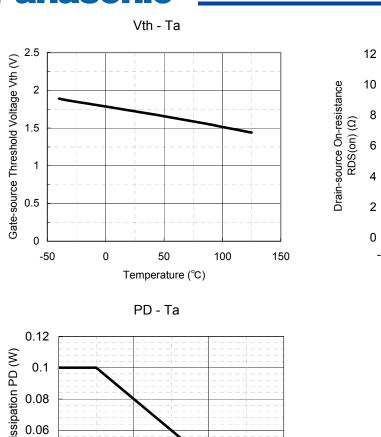


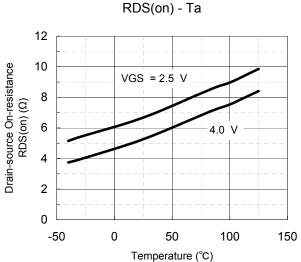
Page 3 of 5

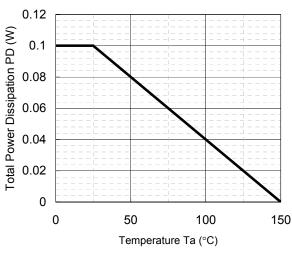
Established: 2010-05-20 Revised

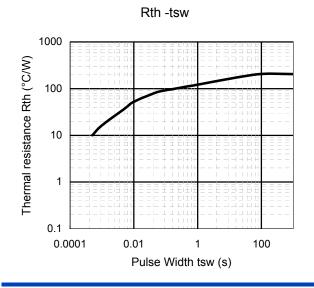
Panasonic

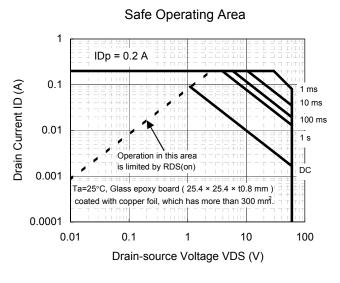
MOS FET **FK3306010L**











Page 4 of 5

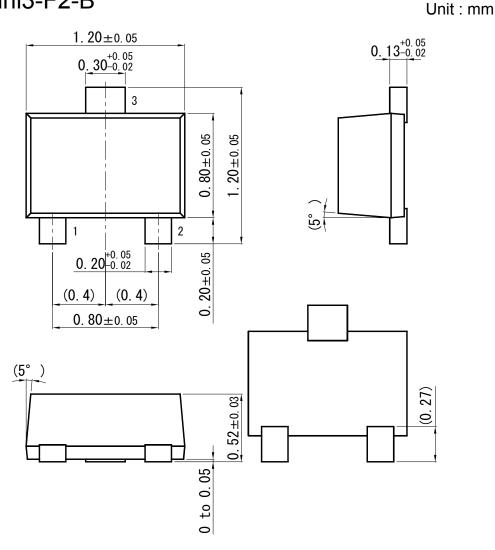
Established: 2010-05-20 Revised: 2013-08-08

Panasonic

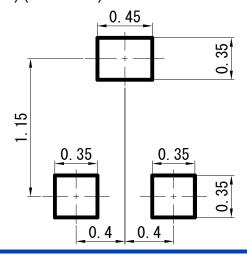
MOS FET

FK3306010L

SSSMini3-F2-B



■ Land Pattern (Reference) (Unit: mm)



Page 5 of 5

Established: 2010-05-20 Revised: 2013-08-08

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