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

Panasonic FJ3503010L

FJ3503010L

Silicon P-channel MOSFET

For switching

FJ330301 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)

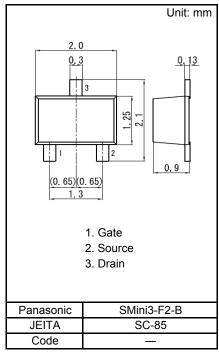
■ Marking Symbol: U1

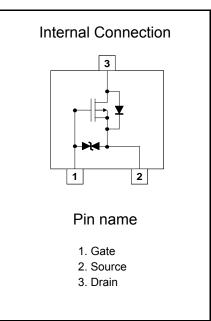
■ Packaging

FJ3503010L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Drain-source Voltage	VDS	-30	V
Gate-source Voltage	VGS	±12	V
Drain current	ID	-100	mA
Drain Current (Pulsed)	IDp	-200	mA
Total Power Dissipation	PD	150	mW
Channel Temperature	Tch	150	°C
Storage Temperature Range	Tstg	-55 to +150	°C





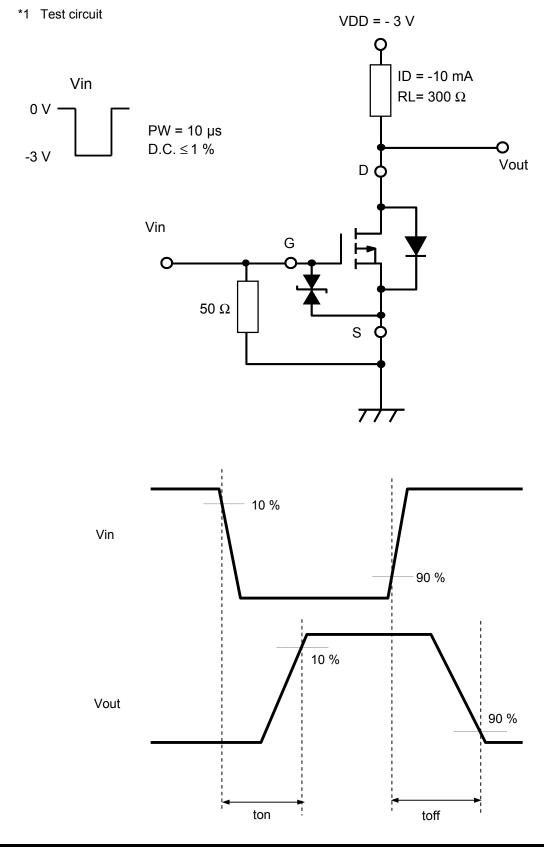
Panasonic

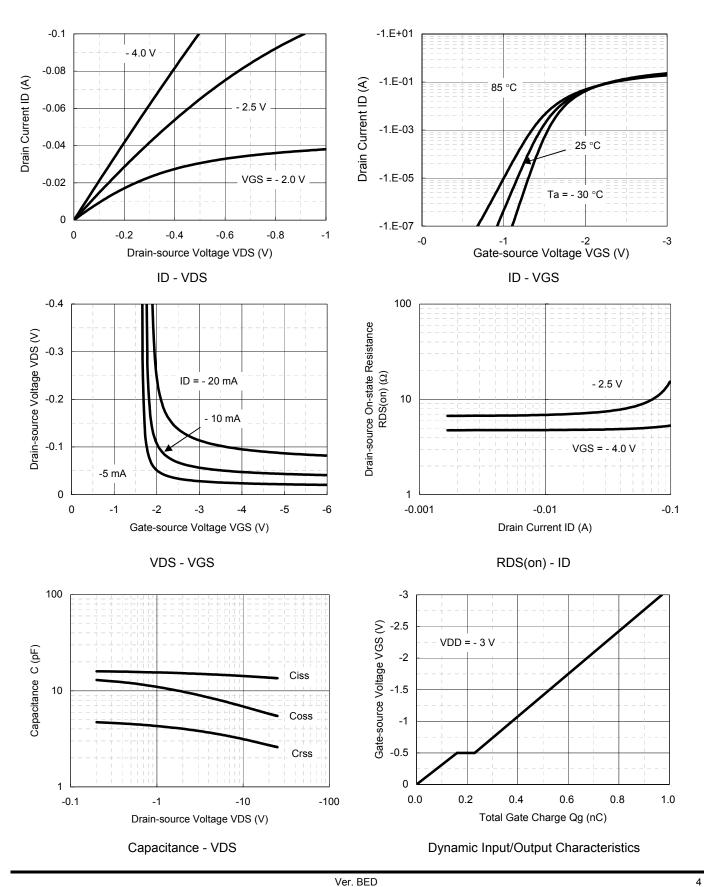
■ Electrical Characteristics Ta = 25 °C ± 3 °C

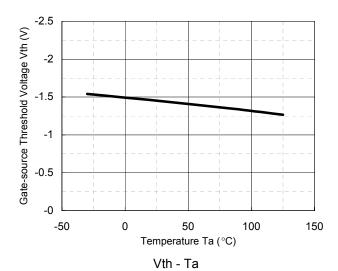
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source Breakdown Voltage	VDSS	ID = -1 mA, VGS = 0 V	-30			V
Zero Gate Voltage Drain Current	IDSS	VDS = -30 V, VGS = 0 V			-1.0	μΑ
Gate-source Leakage Current	IGSS	VGS = ±10 V, VDS = 0 V			±10	μΑ
Gate-source Threshold Voltage	Vth	ID = -1.0 μA, VDS = -3.0 V	-0.5	-1.0	-1.5	V
Drain-source On-state Resistance	RDS(on)1	ID = - 10 mA, VGS = - 2.5 V		7	17	Ω
	RDS(on)2	ID = - 10 mA, VGS = - 4.0 V		4	7	
Forward transfer admittance	Yfs	ID = - 10 mA, VDS = - 3 V	20	40		mS
Input Capacitance	Ciss			12		pF
Output Capacitance	Coss	VDS = - 3 V, VGS = 0 V, f = 1 MHz		7		
Reverse Transfer Capacitance	Crss			3		
Turn-on Time *1	ton	VDD = - 3 V, VGS = 0 V to - 3 V ID= - 10 mA		100		ns
				100		
Turn-off Time *1	toff	VDD = - 3 V, VGS = - 3 V to 0 V		100		ns
		ID= -10 mA				

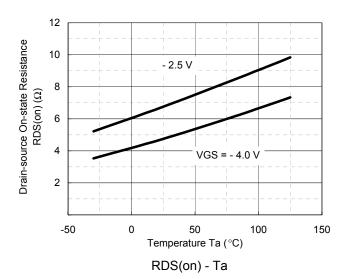
Note: Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

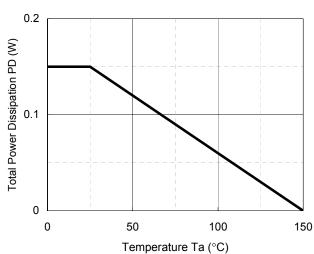
^{*1} See Test circuit.



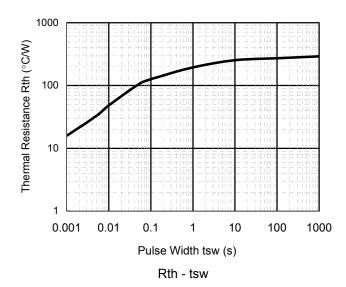


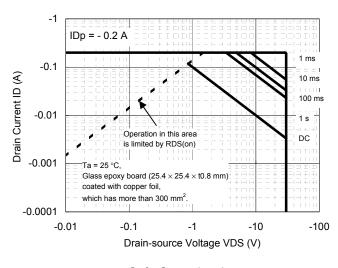






PD - Ta

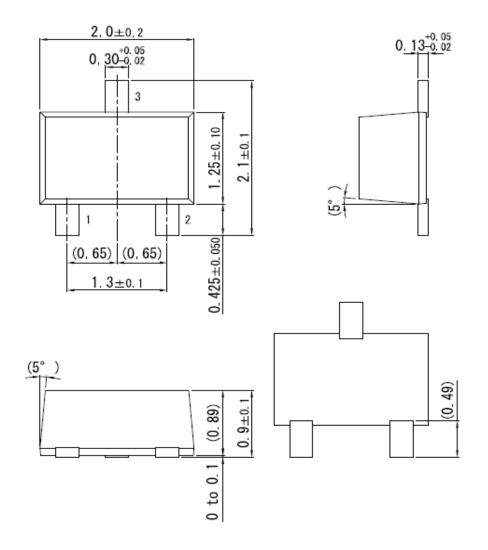




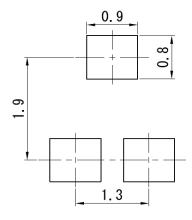
Safe Operating Area

SMini3-F2-B





■ Land Pattern (Reference) (Unit: mm)



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

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