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-14544 Revision. 1

MOS FET

FK330307EL

Panasonic

FK330307EL

Silicon N-channel MOSFET

For switching circuits

Features

Low drive voltage : 4.5 V driveHalogen-free / RoHS compliant

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

■ Marking Symbol : X7

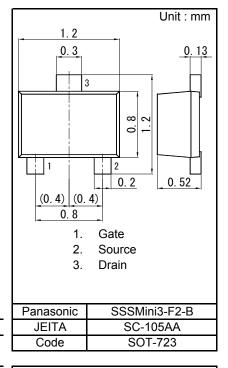
■ Packaging

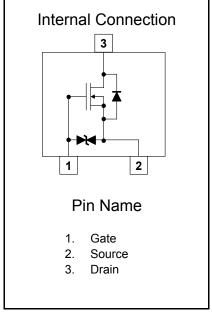
Embossed type (Thermo-compression sealing): 10 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

	~			
Parameter	Symbol	Rating	Unit	
Drain to Source Voltage	VDS	30	V	
Gate to Source Voltage	VGS	±20	V	
Drain Current	ID	100	mA	
Drain Current (Pulsed) *1	IDp	200	ША	
Total Power Dissipation	PD	100	mW	
Channel Temperature	Tch	150	°C	
Storage Temperature Range	Tstg	-55 to +150	C	

Note *1 Pulse test: Ensure that the channel temperature does not exceed 150 $^{\circ}\text{C}$





Established: 2013-02-19

Revised

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MOS FET

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FK330307EL

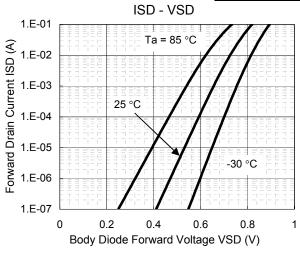
■ Electrical Characteristics Ta = 25 °C ± 3 °C

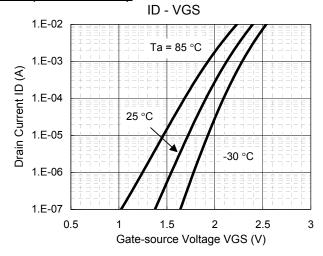
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source Breakdown Voltage	VDSS	ID = 1 mA, VGS = 0 V	30			V
Zero Gate Voltage Drain Current	IDSS	VDS = 30 V, VGS = 0 V			10	μΑ
Gate-source Leakage Current	IGSS	VGS = $\pm 16 \text{ V}$, VDS = 0 V			±10	μА
Gate-source Threshold Voltage	Vth	ID = 6.9 μA, VDS = 10 V	1		2.5	V
I Irain_entired (In_etate Registance	RDS(on)1	ID = 10 mA, VGS = 10 V		1	1.4	Ω
	RDS(on)2	ID = 10 mA, VGS = 4.5 V		1.5	2.3	
Input Capacitance	Ciss	VDS = 10 V, VGS = 0 V		11		pF
Output Capacitance	Coss	f = 1 MHz		7		
Reverse Transfer Capacitance	Crss	1 - 1 1011 12		3.5		

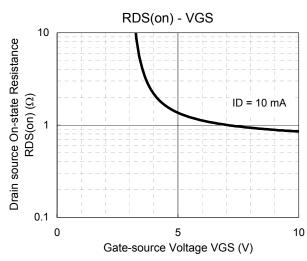
Note: Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

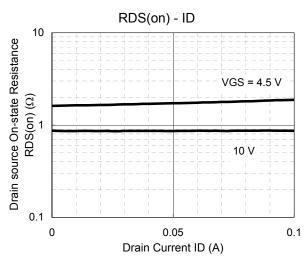
MOS FET FK330307EL

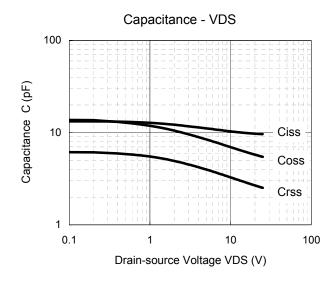
Technical Data (reference)

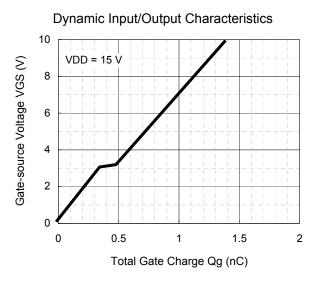






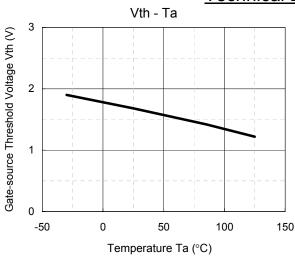


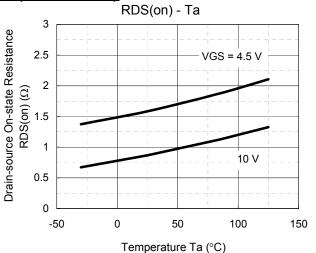


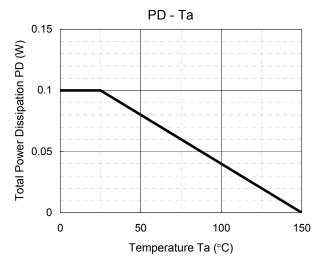


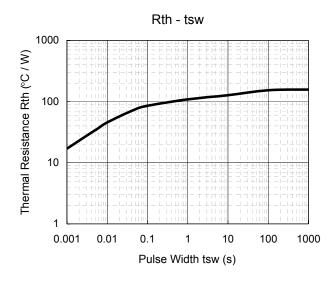
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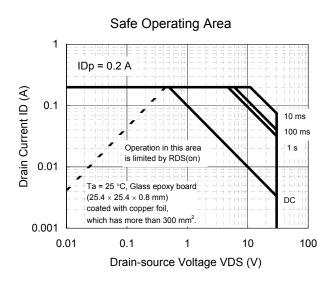
Technical Data (reference)







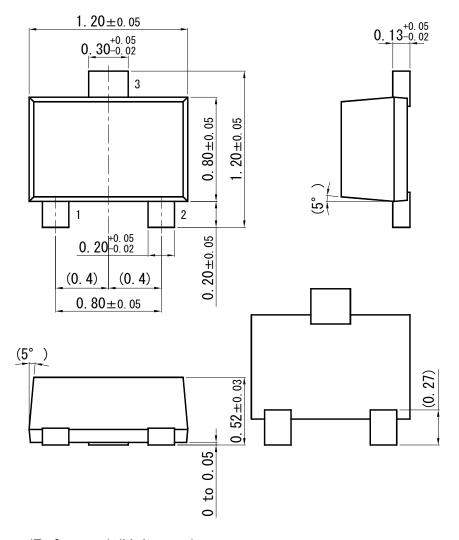




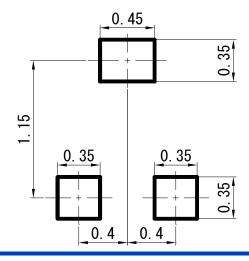
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SSSMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit : mm)



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

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No.070920

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>>Panasonic(松下)