Package • Code

 Pin Name 1: Cathode

2: Drain

Mini5-G1 (Exclusive use for XN0NE92)

4: Source

5: Anode

XN0NE92

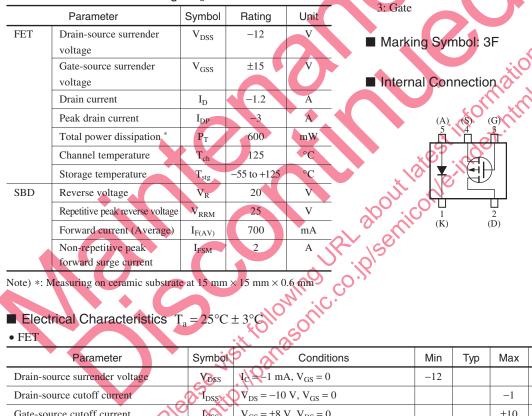
Silicon P-channel MOSFET (FET) Silicon epitaxial planar type (SBD)

For DC-DC converter

Features

- · Two elements incorporated into one package
- Reduction of the mounting area and assembly cost by one half
- High-speed switching, low on resistance

Absolute Maximum Ratings $T_a = 25^{\circ}C$



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Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source surrender voltage	VDSS	$V_{G} = -1 \text{ mA}, V_{GS} = 0$	-12			V
Drain-source cutoff current	IDSS	$V_{\rm DS} = -10 \text{ V}, V_{\rm GS} = 0$			-1	V
Gate-source cutoff current	IGSS	$V_{GS} = \pm 8 \text{ V}, V_{DS} = 0$			±10	V
Gate threshold voltage	V _{th}	$V_{DS} = -10 \text{ V}, I_D = -1 \text{ mA}$	- 0.4		-1.3	V
Forward transfer admittance *	Yfs	$V_{DS} = -10 \text{ V}, I_D = -800 \text{ mA}$	0.8	1.1		S
Drain-source ON resistance *	R _{DS(on)}	$V_{GS} = -4 V, I_D = -800 mA$		350	450	mΩ
Turn-on time	t _{on}	$V_{DD} = -10 \text{ V}, R_L = 12.5 \Omega,$		15		ns
Storage time	t _{stg}	$I_D = -800 \text{ mA}, V_{GS} = 0 \text{ V to } -4 \text{ V}$		10		ns
Turn-off time	t _{off}			10		ns

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

2. Observe precautions for handling. Electrostatic sensitive devices.

3. *: Pulse measurement

Electrical Characteristics (continued) $T_a = 25^{\circ}C \pm 3^{\circ}C$

• SBD

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 700 \text{ mA}$			0.45	V
Reverse current	IR	$V_R = 20 V$			200	μΑ
Terminal capacitance	Ct	$V_{R} = 0, f = 1 MHz$		100		pF
Reverse recovery time	t _{rr}	$I_F = I_R = 100 \text{ mA}$		7		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for diodes.

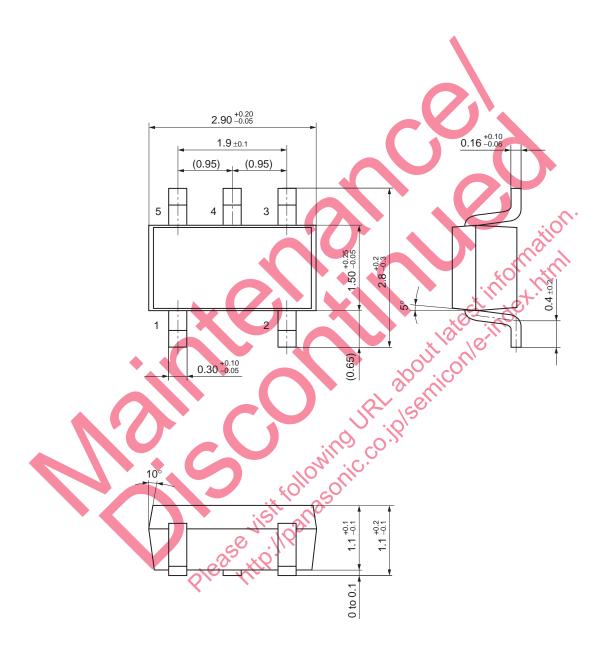
2. Schottky barrier diode is frail with static electricity, and it should be kept in safety from shock of static electricity and static electricity level.

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Mini5-G1

(Exclusive use for XN0NE92)

Unit: mm



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