# Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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# H5N2521FN

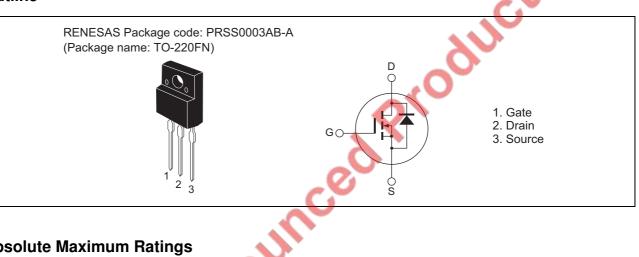
Silicon N Channel MOS FET High Speed Power Switching

> REJ03G1619-0101 Rev.1.01 May 13, 2008

### **Features**

- Low on-resistance
- Low leakage current
- High speed switching

### Outline



# **Absolute Maximum Ratings**

	O		$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Drain to source voltage	V <sub>DSS</sub>	250	V
Gate to source voltage	V <sub>GSS</sub>	±30	V
Drain current	Ι <sub>D</sub>	3	А
Drain peak current	Note1 D (pulse)	6	А
Body-drain diode reverse drain current	I <sub>DR</sub>	3	А
Body-drain diode reverse drain peak current	Note1 I <sub>DR (pulse)</sub>	6	А
Avalanche current	I <sub>AP</sub> <sup>Note3</sup>	6	А
Avalanche energy	E <sub>AR</sub> <sup>Note3</sup>	2.2	mJ
Channel dissipation	Pch Note2	20	W
Channel to case thermal impedance	θch-c	6.25	°C/W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	℃

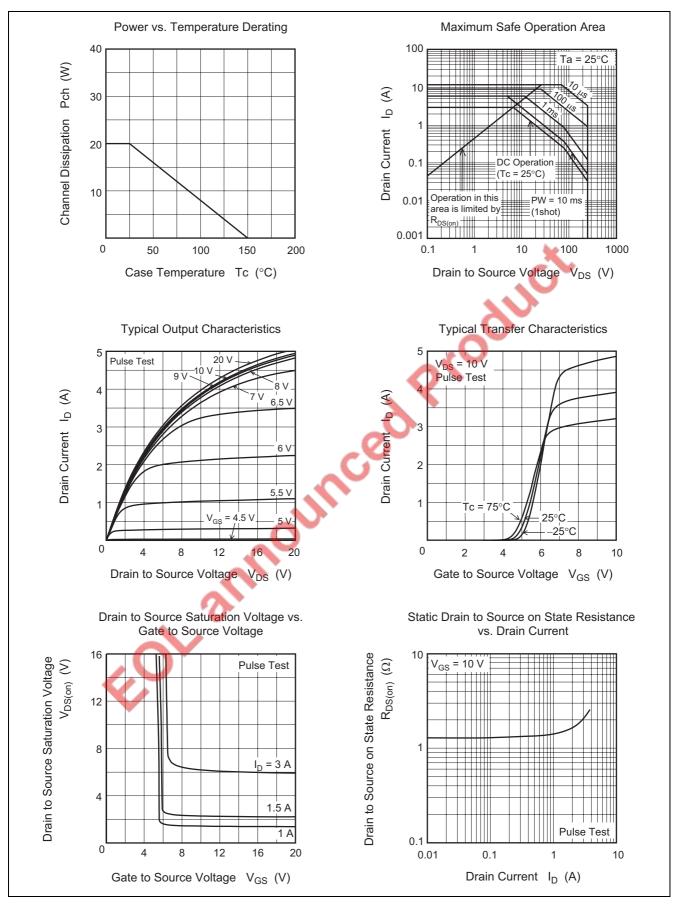
Notes: 1.  $PW \le 10 \ \mu s$ , duty cycle  $\le 1\%$ 

2. Value at Tc = 25°C

3. STch =  $25^{\circ}$ C, Tch  $\leq 150^{\circ}$ C

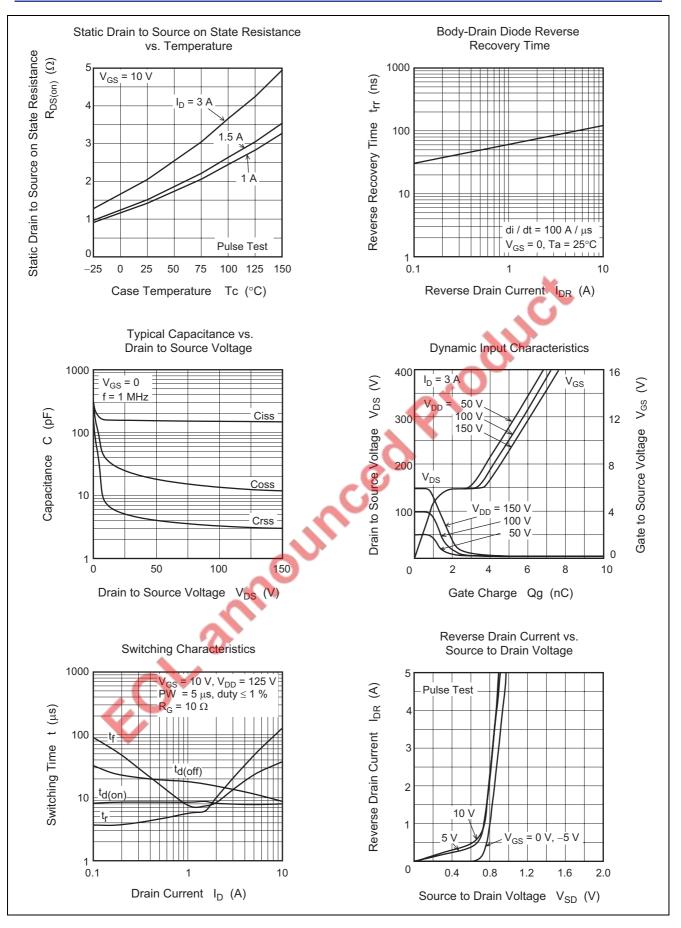
# **Electrical Characteristics**

### **Main Characteristics**

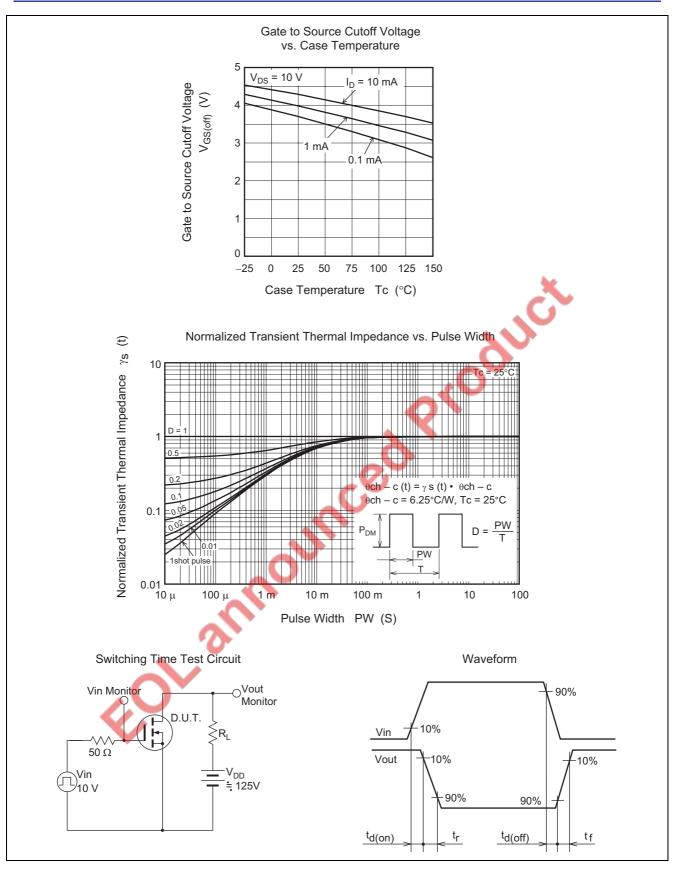


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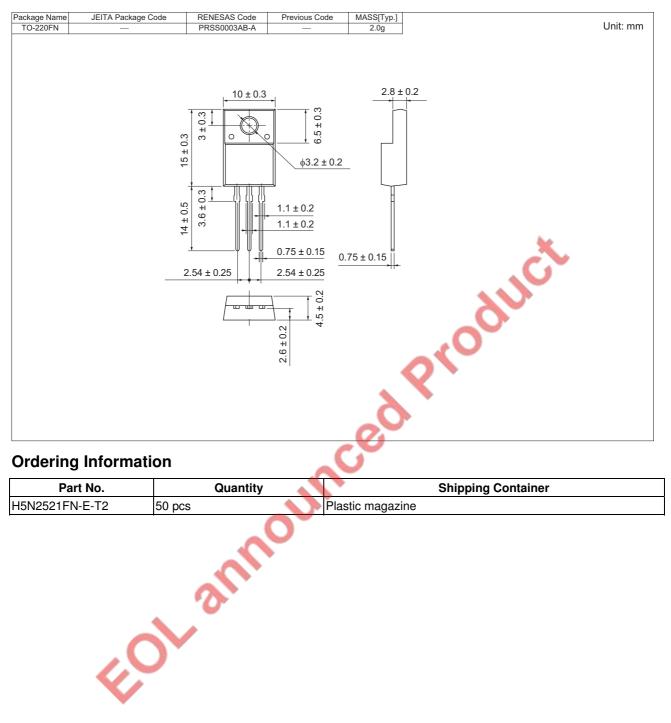


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# **Package Dimensions**



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