# 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** 

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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# 2SK1404 Silicon N Channel MOS FET

REJ03G0944-0300 Rev.3.00 May 15, 2006

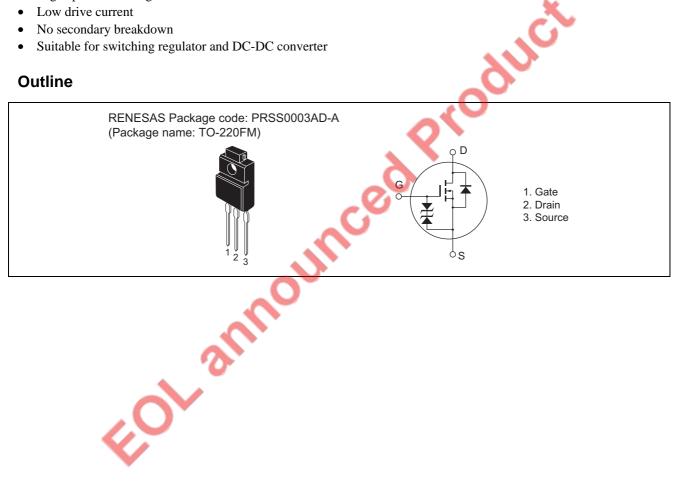
# Application

High speed power switching

## **Features**

- Low on-resistance
- High speed switching
- Low drive current
- No secondary breakdown
- Suitable for switching regulator and DC-DC converter

### Outline





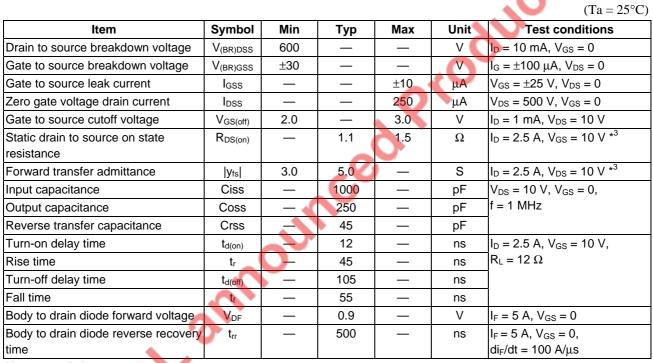
# **Absolute Maximum Ratings**

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Drain to source voltage	V <sub>DSS</sub>	600	V
Gate to source voltage	V <sub>GSS</sub>	±30	V
Drain current	I <sub>D</sub>	5	А
Drain peak current	I <sub>D(pulse)</sub> <sup>*1</sup>	20	А
Body to drain diode reverse drain current	I <sub>DR</sub>	5	А
Channel dissipation	Pch <sup>*2</sup>	35	W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

2. Value at  $T_C = 25^{\circ}C$ 

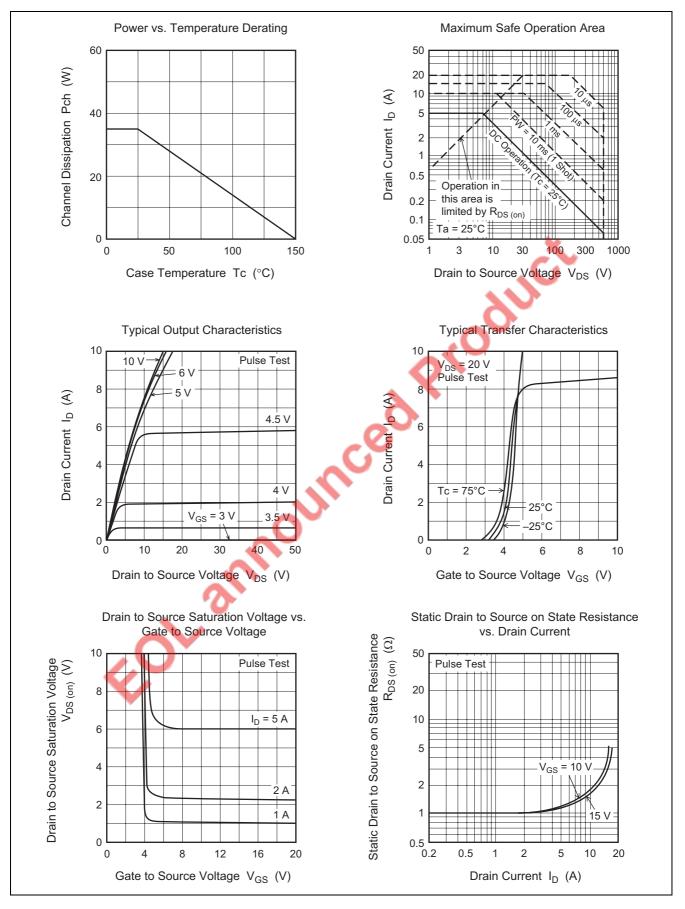
# **Electrical Characteristics**



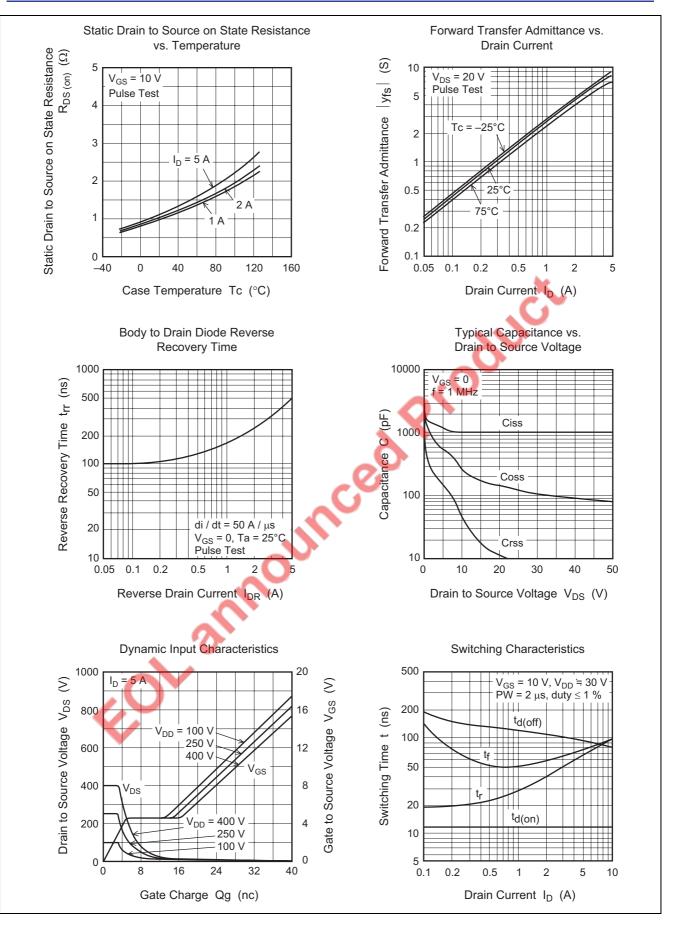
Note: 3. Pulse test



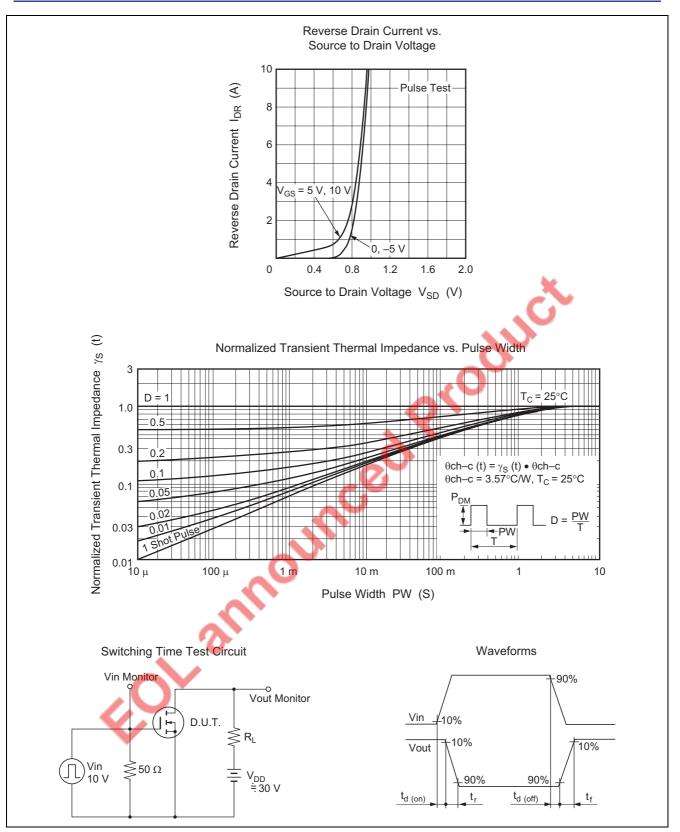
# **Main Characteristics**





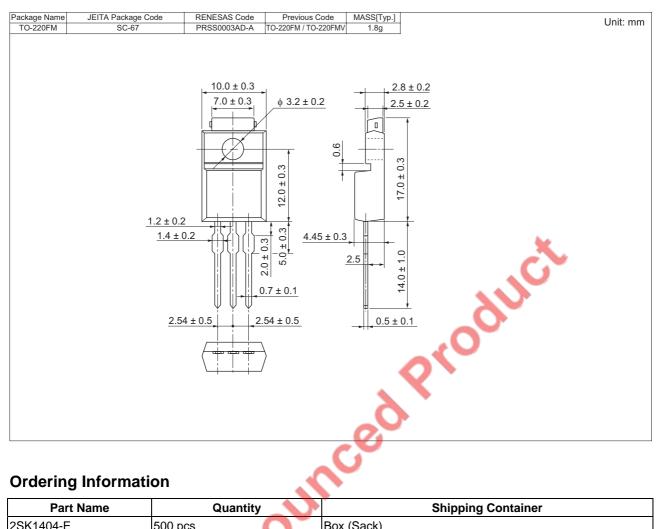






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# **Package Dimensions**



### **Ordering Information**

Part Name	Quantity	J	Shipping Container
2SK1404-E	500 pcs		Box (Sack)

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product. .ne



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