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

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

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# 2SK2008 Silicon N Channel MOS FET

REJ03G0992-0200 (Previous: ADE-208-1340) Rev.2.00 Sep 07, 2005

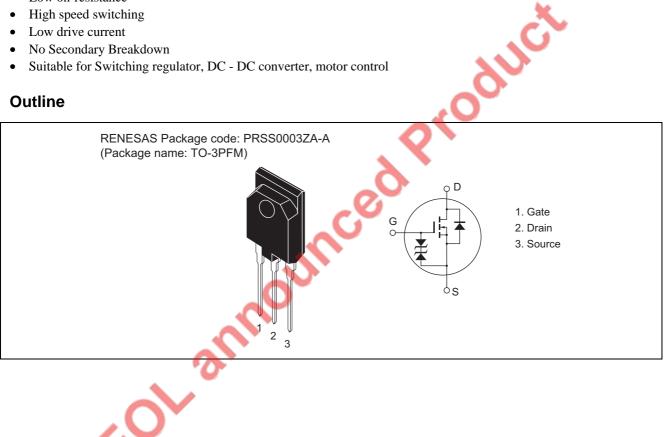
# Application

High speed power switching

### **Features**

- Low on-resistance
- High speed switching
- Low drive current
- No Secondary Breakdown
- Suitable for Switching regulator, DC DC converter, motor control •

### Outline





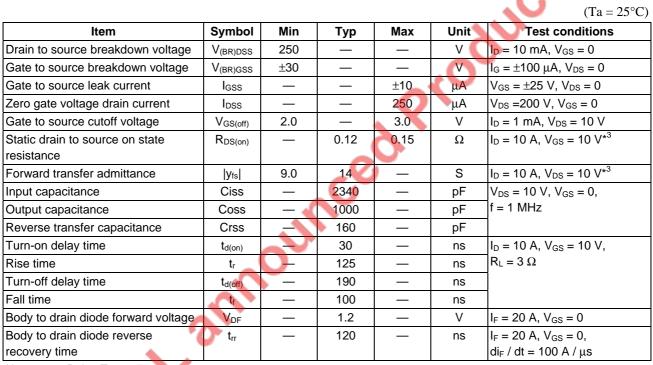
# **Absolute Maximum Ratings**

			$(Ta = 25^{\circ}C)$
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	ID	20	А
Drain peak current	I <sub>D(pulse)</sub> * <sup>1</sup>	80	А
Body to drain diode reverse drain current	I <sub>DR</sub>	20	А
Channel dissipation	Pch*2	60	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 Tc = 25°C

## **Electrical Characteristics**



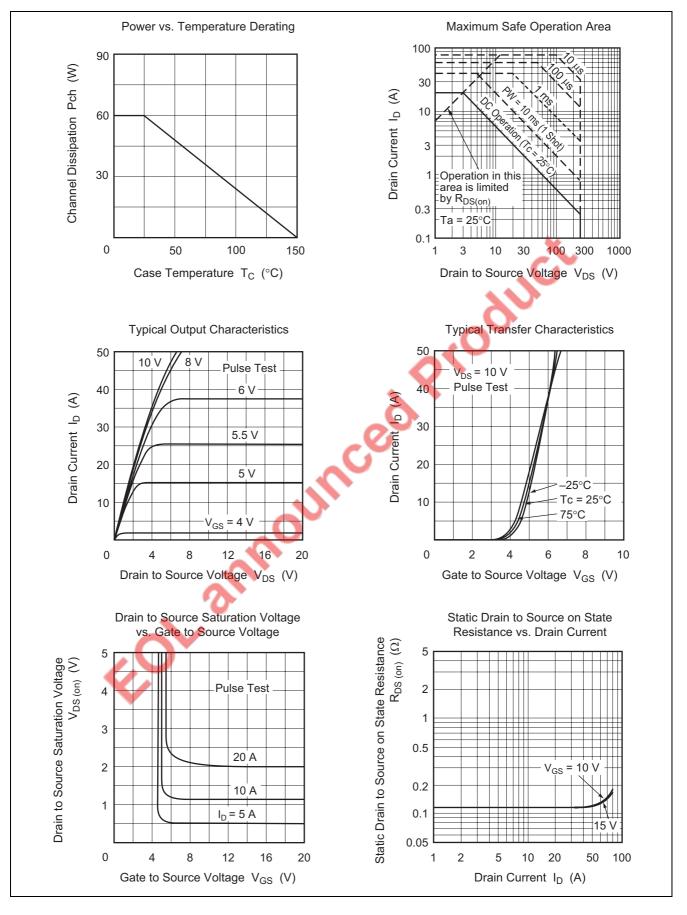
Note: 3. Pulse Test



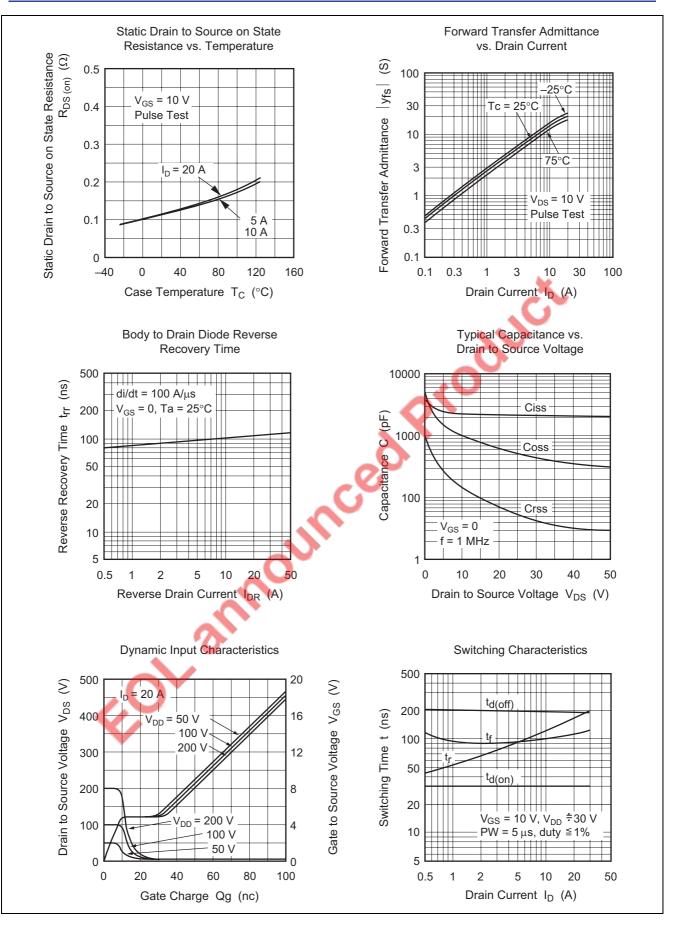
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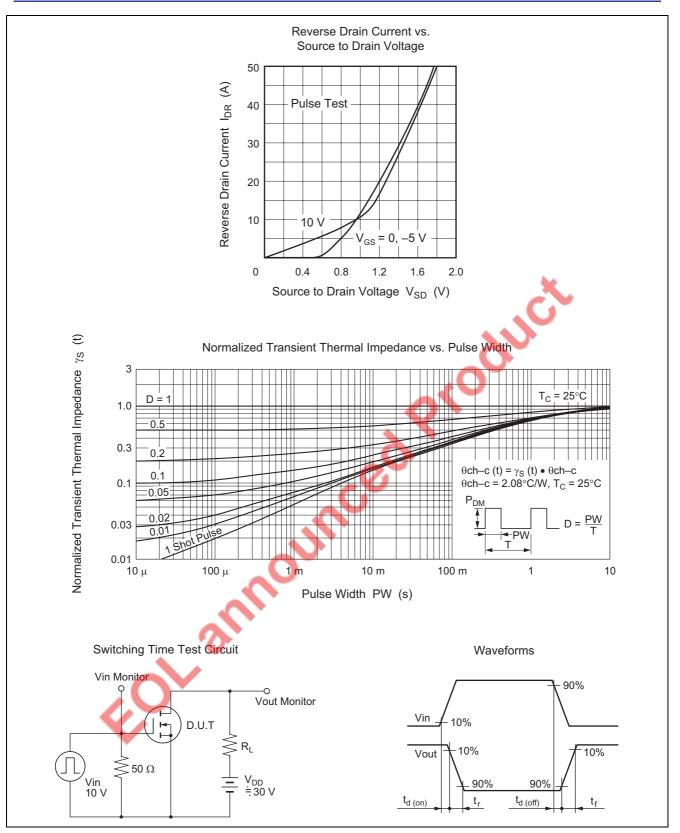
### **Main Characteristics**



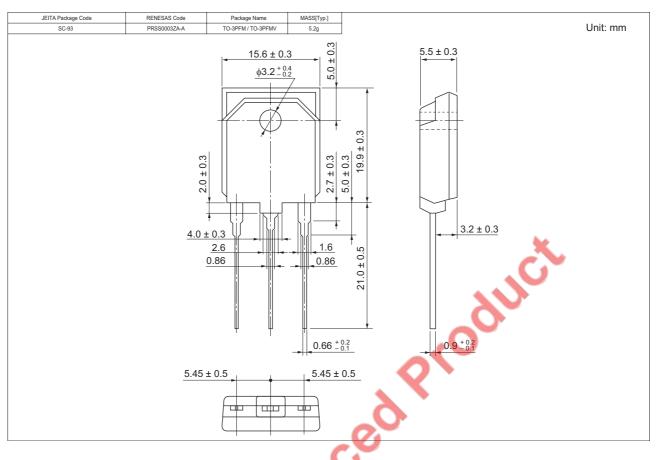








## **Package Dimensions**



## **Ordering Information**

Part Name	Quantity	5	Shipping Container
2SK2008-E	360 pcs 🧹		Box (Tube)

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



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