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## FS30AS-06

# High-Speed Switching Use Nch Power MOS FET

REJ03G1410-0300 Rev.3.00 Dec 19, 2008

#### **Features**

• Drive voltage: 10 V

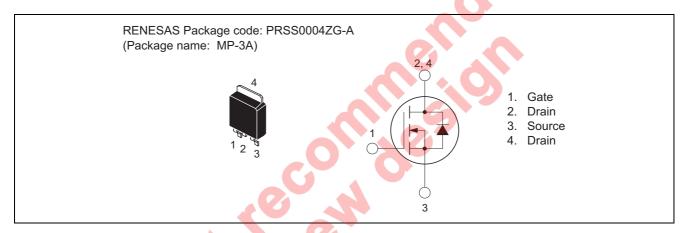
 $\bullet \quad V_{DSS}:60\;V$ 

•  $r_{DS(ON) \, (max)}$ : 30 m $\Omega$ 

• I<sub>D</sub>: 30 A

• Integrated Fast Recovery Diode (TYP.): 65 ns

#### **Outline**



### **Applications**

Motor control, Lamp control, Solenoid control, DC-DC converters, etc.

### **Maximum Ratings**

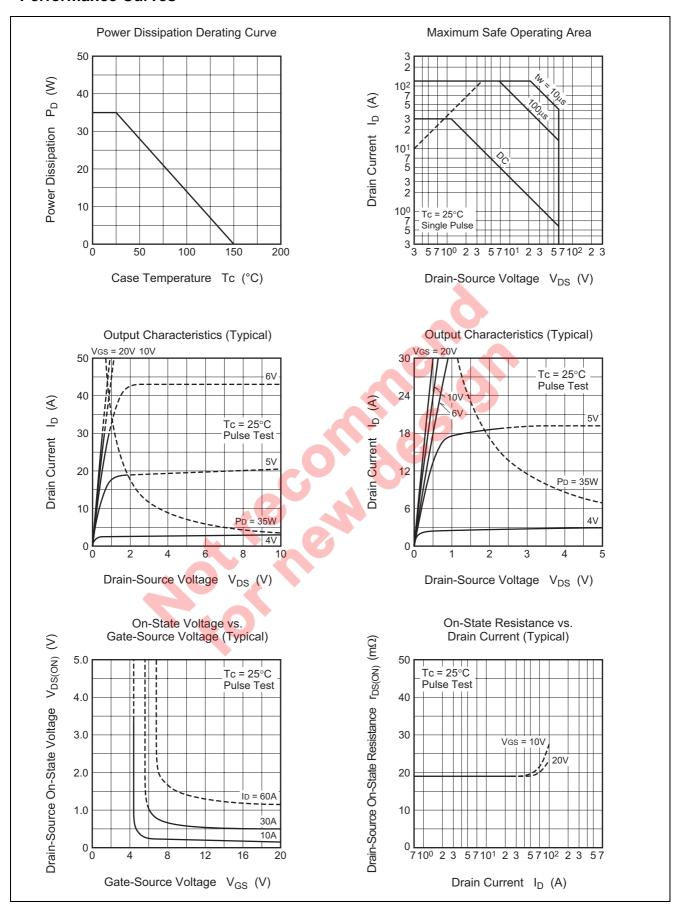
 $(Tc = 25^{\circ}C)$ 

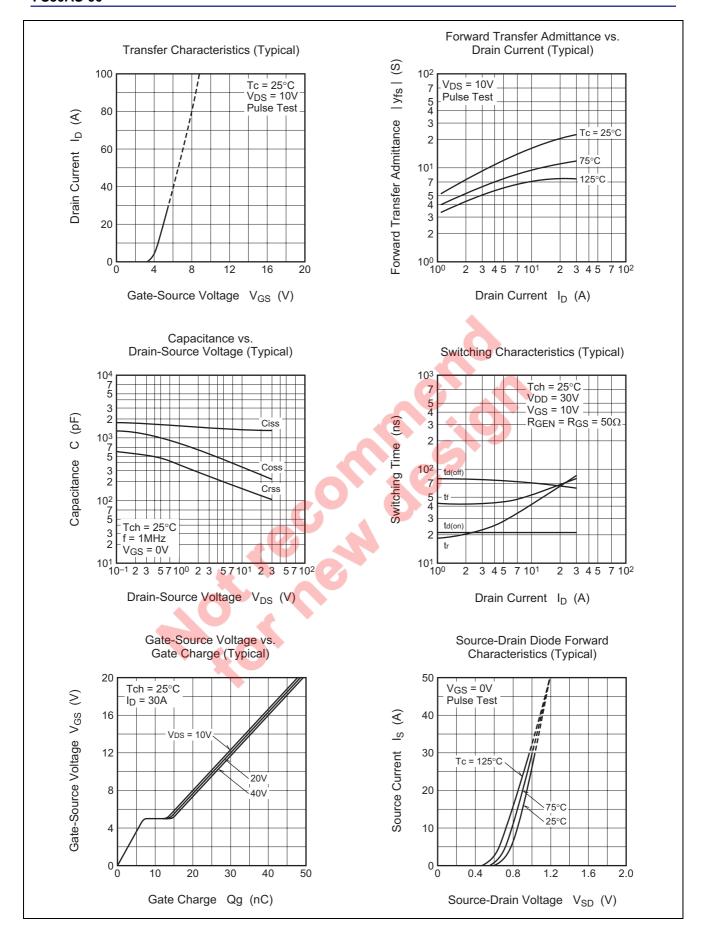
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V <sub>DSS</sub>	60	V	V <sub>GS</sub> = 0 V
Gate-source voltage	V <sub>GSS</sub>	±20	V	$V_{DS} = 0 V$
Drain current	I <sub>D</sub>	30	Α	
Drain current (Pulsed)	I <sub>DM</sub>	120	Α	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	30	А	L = 100 μH
Source current	Is	30	А	
Source current (Pulsed)	I <sub>SM</sub>	120	А	
Maximum power dissipation	P <sub>D</sub>	35	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	<u> </u>	0.32	g	Typical value

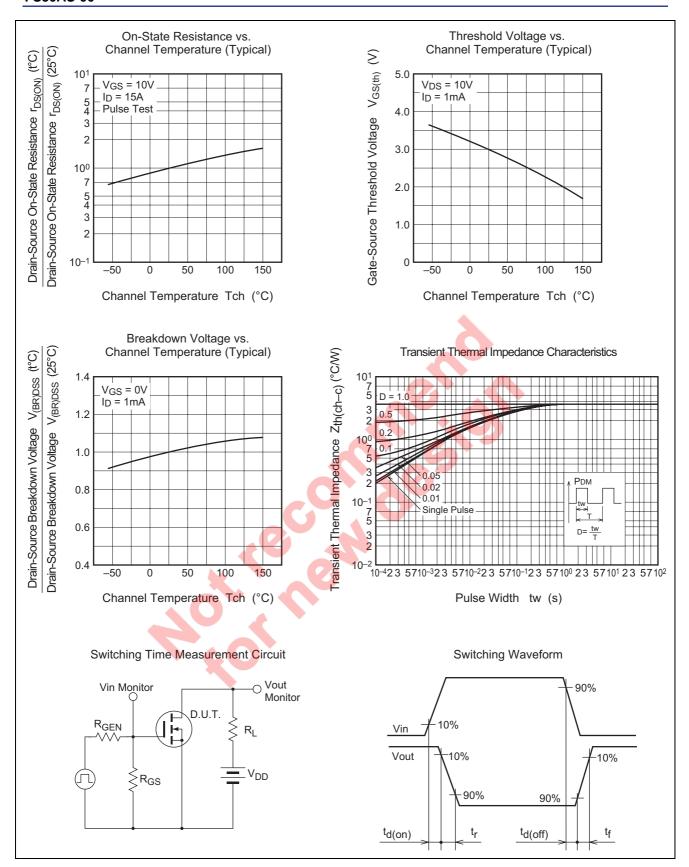
#### **Electrical Characteristics**

 $(Tch = 25^{\circ}C)$ 

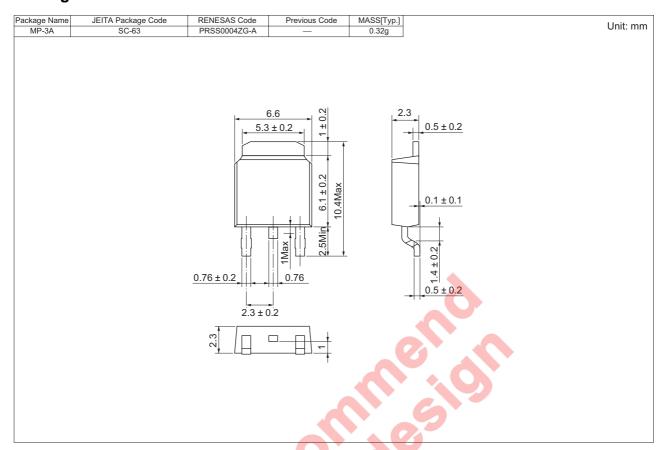
### **Performance Curves**







### **Package Dimensions**



### **Order Code**

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Surface-mounted type	Taping	3000	Type name – T +Direction (1 or 2) +3	FS30AS-06-T13
Surface-mounted type	Plastic Magazine (Tube)	75	Type name	FS30AS-06

Note: Please confirm the specification about the shipping in detail.

Renesas Technology Corp. sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

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