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## FS10ASJ-3

# High-Speed Switching Use Nch Power MOS FET

REJ03G1409-0300 Rev.3.00 Dec 19, 2008

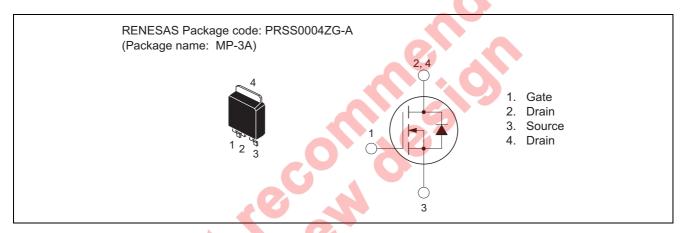
#### **Features**

 $\begin{array}{ll} \bullet & Drive\ voltage: 4\ V \\ \bullet & V_{DSS}: 150\ V \\ \bullet & r_{DS(ON)\ (max)}: 160\ m\Omega \end{array}$ 

• I<sub>D</sub>: 10 A

• Integrated Fast Recovery Diode (TYP.): 90 ns

#### **Outline**



### **Applications**

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

### **Maximum Ratings**

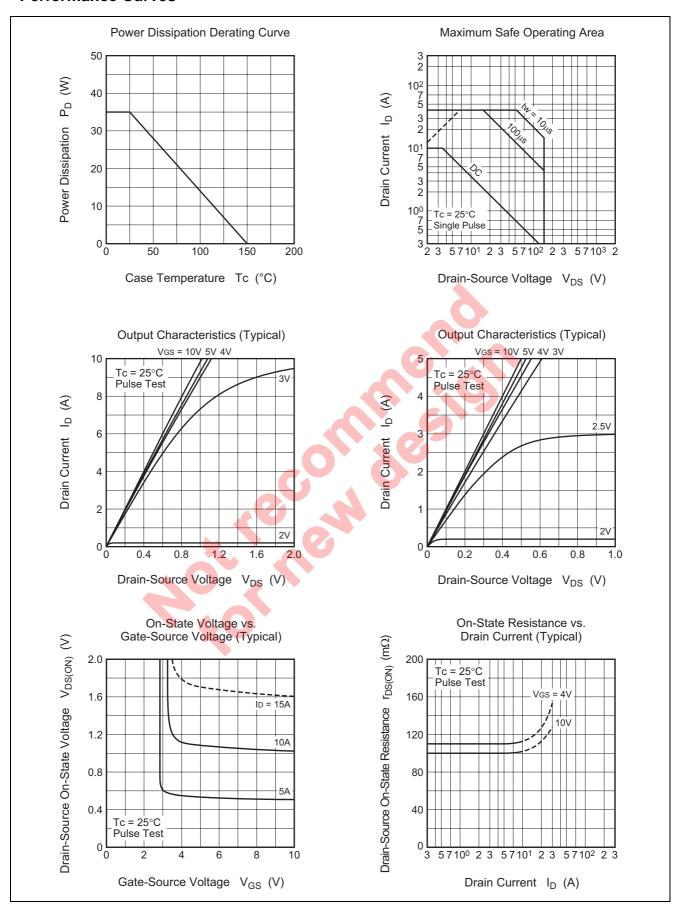
 $(Tc = 25^{\circ}C)$ 

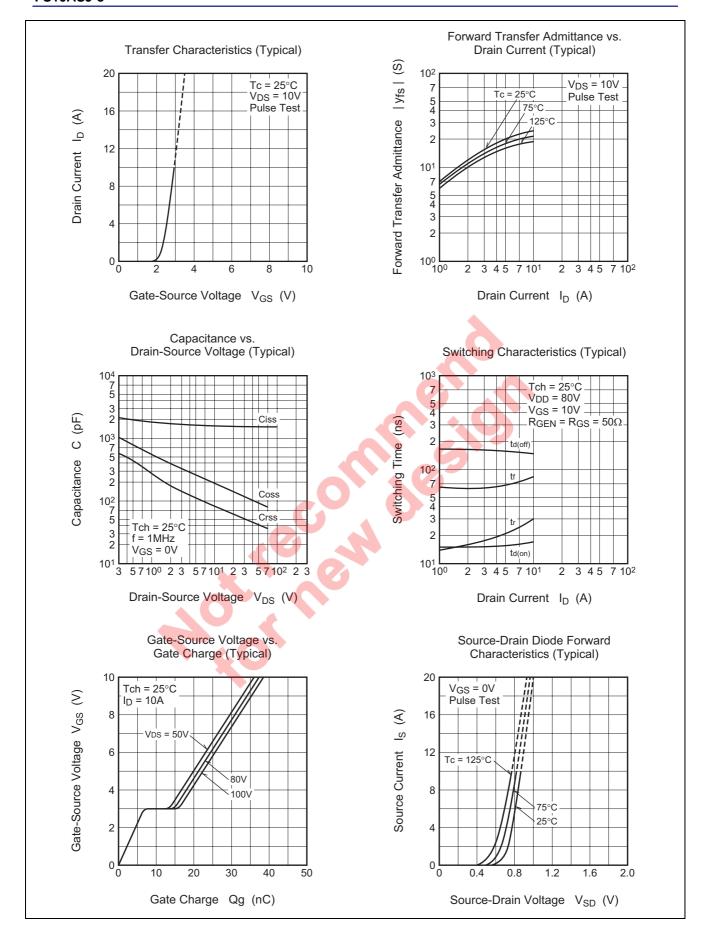
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V <sub>DSS</sub>	150	V	V <sub>GS</sub> = 0 V
Gate-source voltage	$V_{GSS}$	±20	V	$V_{DS} = 0 V$
Drain current	I <sub>D</sub>	10	А	
Drain current (Pulsed)	I <sub>DM</sub>	40	А	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	10	А	L = 100 μH
Source current	Is	10	А	
Source current (Pulsed)	I <sub>SM</sub>	40	А	
Maximum power dissipation	$P_D$	35	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	_	0.32	g	Typical value

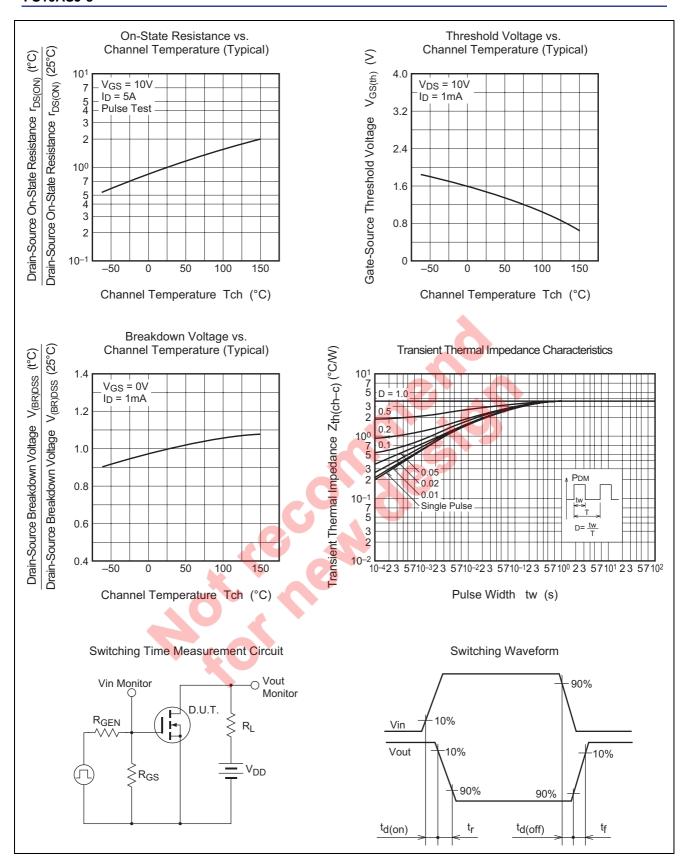
#### **Electrical Characteristics**

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

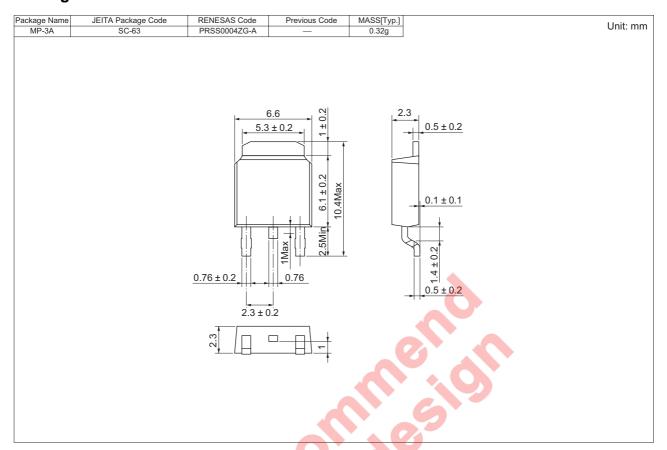
### **Performance Curves**







### **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	FS10ASJ-3-T13
Surface-mounted type	Plastic Magazine (Tube)	75	Type name	FS10ASJ-3

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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