

# FS10ASJ-2

High-Speed Switching Use Nch Power MOS FET

> REJ03G1408-0300 Rev.3.00 Dec 19, 2008

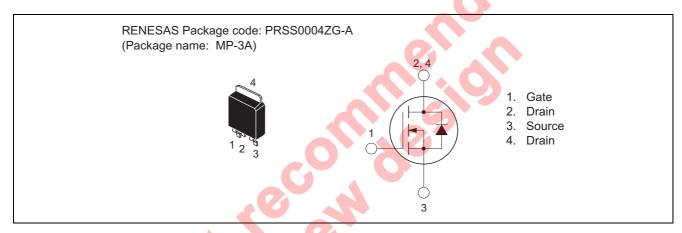
### **Features**

Drive voltage: 4 V  $V_{DSS}$ : 100 V  $r_{\mathrm{DS(ON)\,(max)}}: 0.19~\Omega$ 

 $I_D: 10 A$ 

• Integrated Fast Recovery Diode (TYP.): 95 ns

### **Outline**



# **Applications**

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

# **Maximum Ratings**

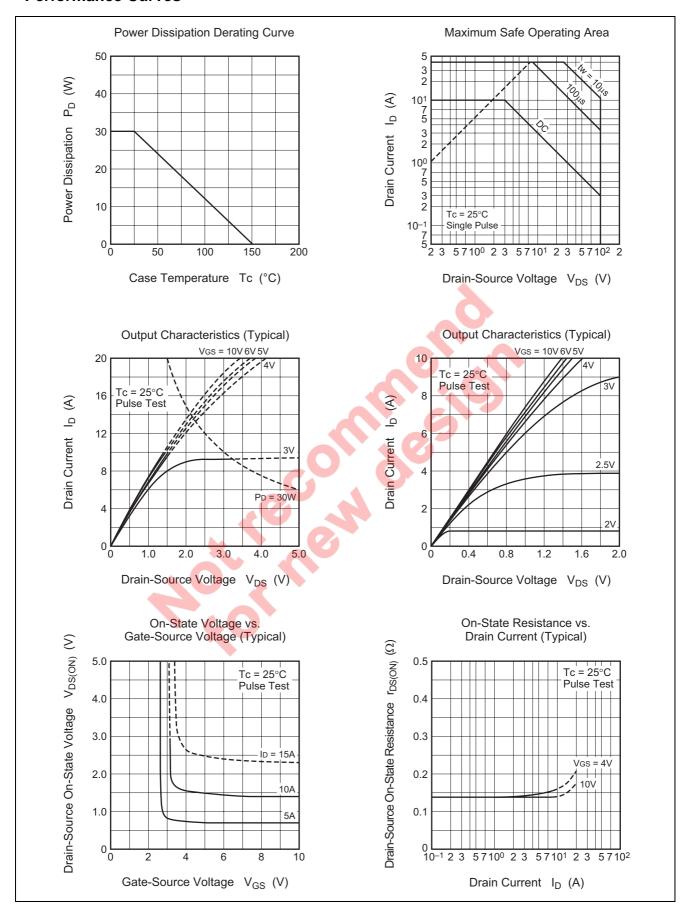
 $(Tc = 25^{\circ}C)$ 

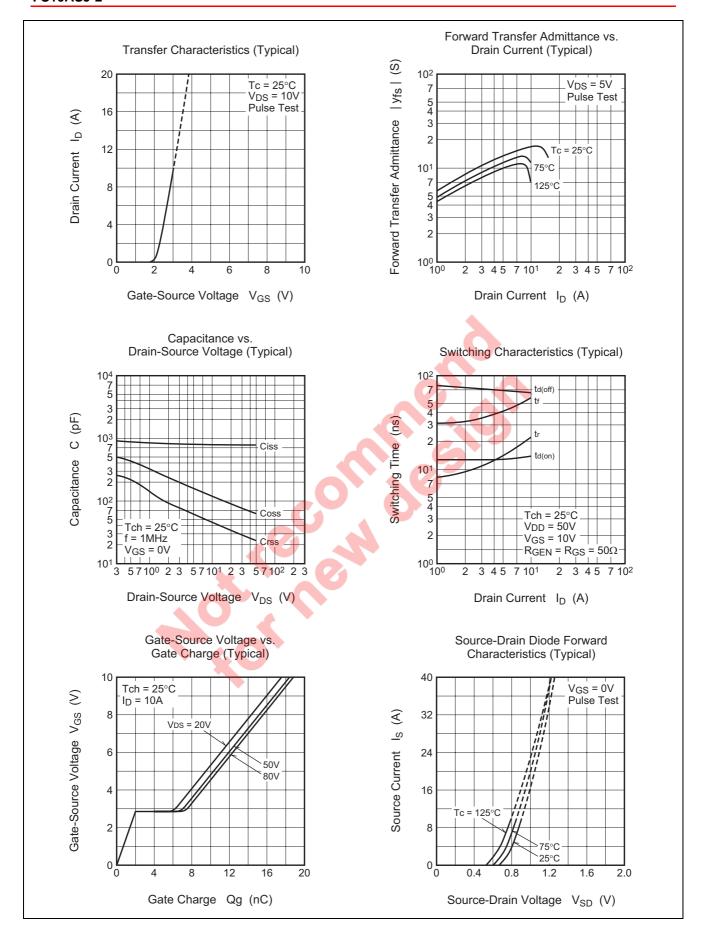
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V <sub>DSS</sub>	100	V	V <sub>GS</sub> = 0 V
Gate-source voltage	V <sub>GSS</sub>	±20	V	$V_{DS} = 0 V$
Drain current	I <sub>D</sub>	10	А	
Drain current (Pulsed)	I <sub>DM</sub>	40	А	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	10	А	L = 100 μH
Source current	Is	10	А	
Source current (Pulsed)	I <sub>SM</sub>	40	Α	
Maximum power dissipation	$P_D$	30	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	_	0.32	g	Typical value

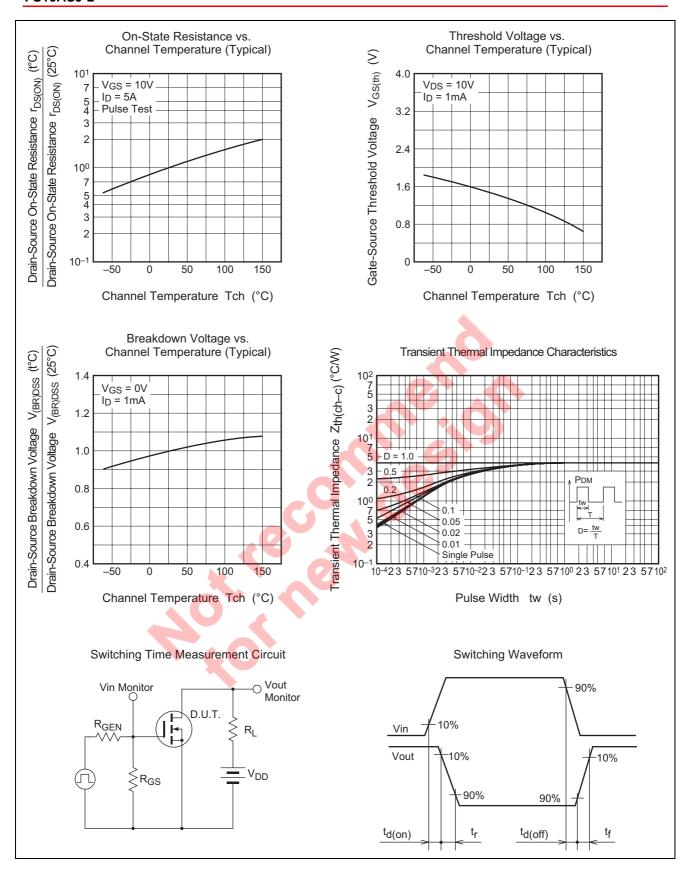
### **Electrical Characteristics**

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

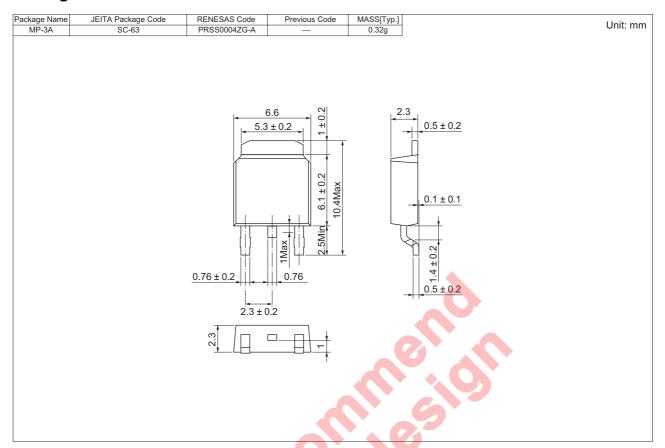
### **Performance Curves**







# **Package Dimensions**



# **Order Code**

Lead form	Standard packing	Qı	antity	Standard order code	Standard order code example
Surface-mounted type	Taping		3000	Type name – T +Direction (1 or 2) +3	FS10ASJ-2-T13
Surface-mounted type	Plastic Magazine		75	Type name	FS10ASJ-2
	(Tube)				

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

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- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

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