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April 1st, 2010 Renesas Electronics Corporation

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

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FS5ASJ-2

High-Speed Switching Use Nch Power MOS FET

REJ03G1405-0400 Rev.4.00 Dec 19, 2008

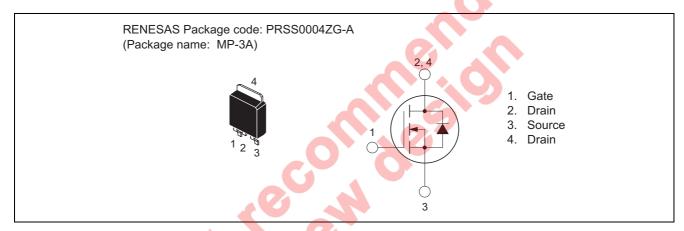
Features

 $\begin{tabular}{ll} \bullet & Drive \ voltage: 4 \ V \\ \bullet & V_{DSS}: 100 \ V \\ \bullet & r_{DS(ON) \, (max)}: 0.4 \ \Omega \\ \end{tabular}$

• I_D: 5 A

• Integrated Fast Recovery Diode (TYP.): 80 ns

Outline



Applications

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

Maximum Ratings

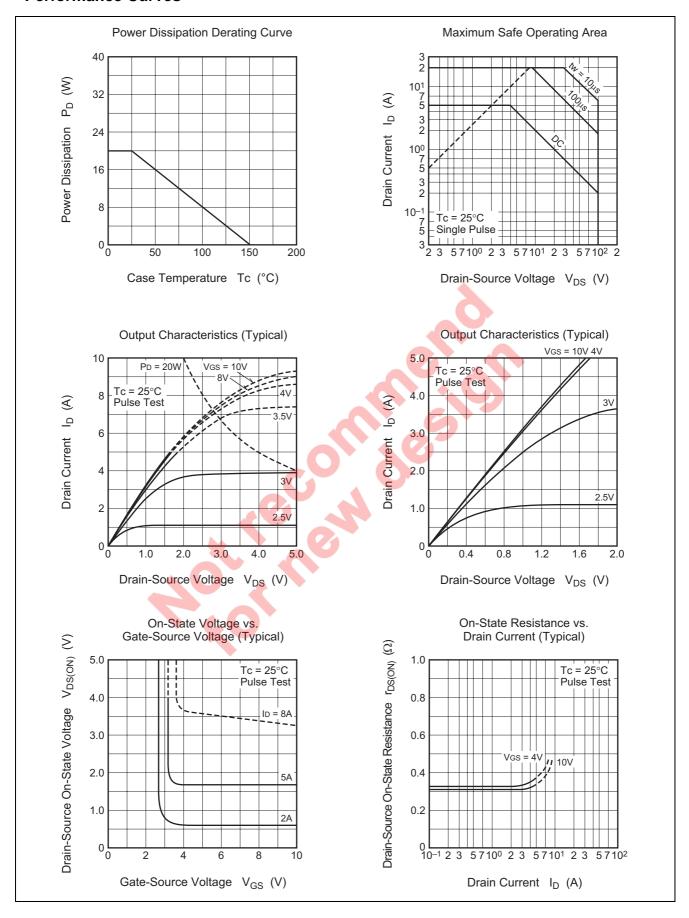
 $(Tc = 25^{\circ}C)$

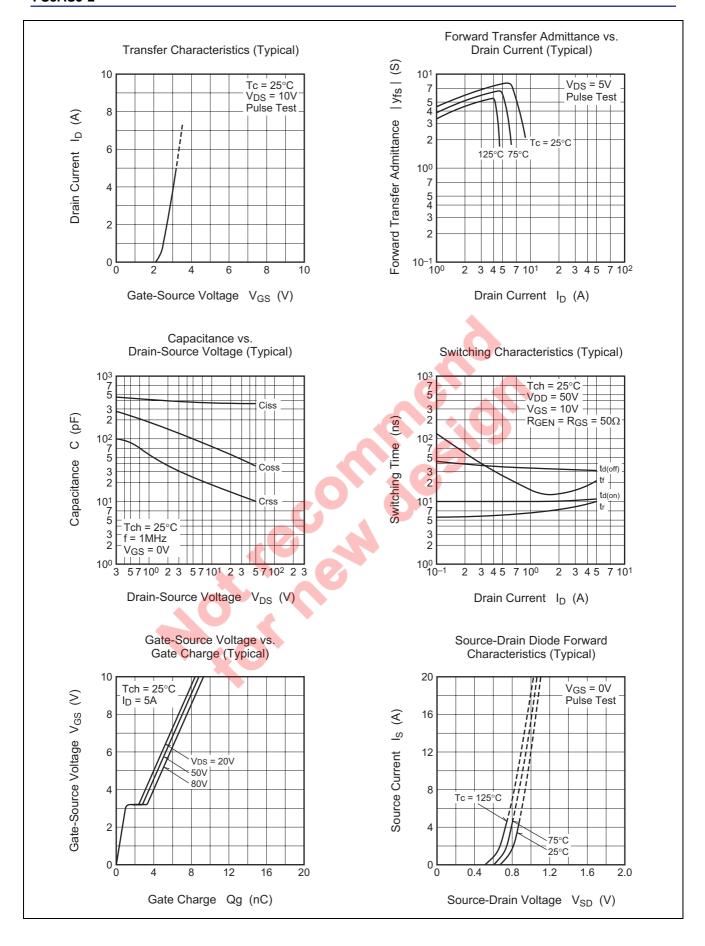
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V_{DSS}	100	V	V _{GS} = 0 V
Gate-source voltage	V_{GSS}	±20	V	V _{DS} = 0 V
Drain current	I _D	5	А	
Drain current (Pulsed)	I _{DM}	20	А	
Avalanche drain current (Pulsed)	I _{DA}	5	А	L = 100 μH
Source current	Is	5	А	
Source current (Pulsed)	I _{SM}	20	А	
Maximum power dissipation	P_D	20	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	<u> </u>	0.32	g	Typical value

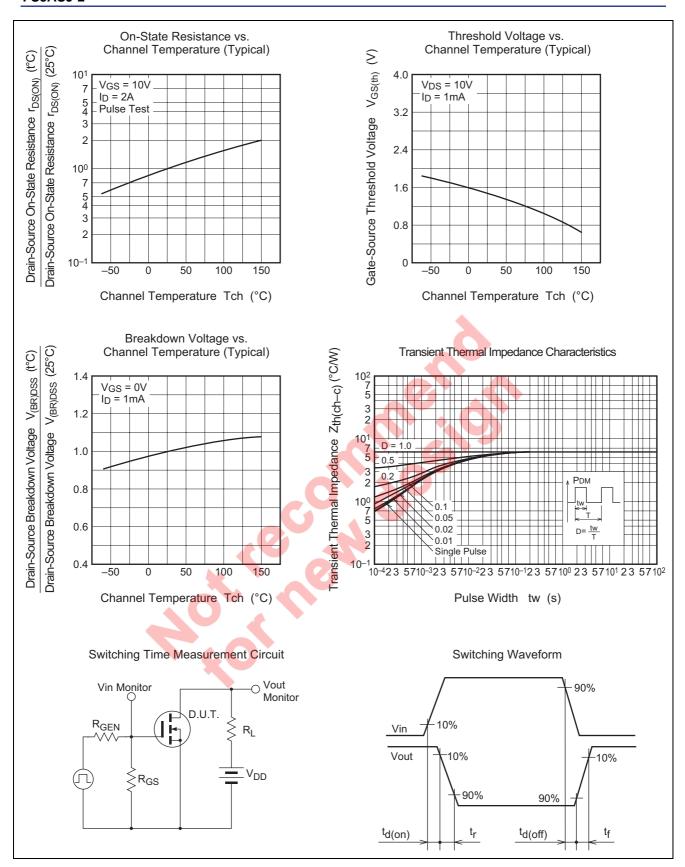
Electrical Characteristics

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

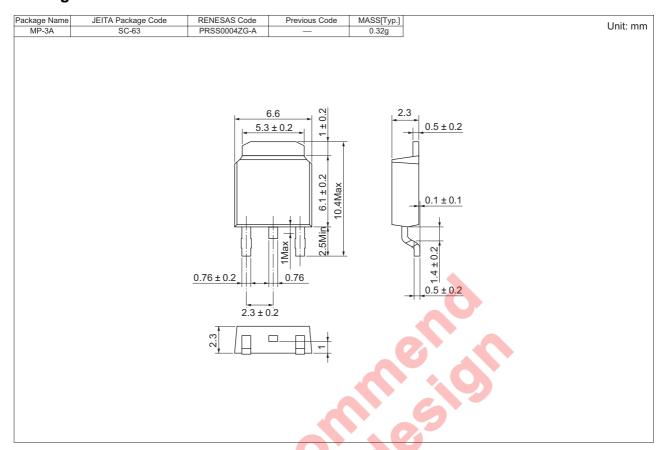
Performance Curves







Package Dimensions



Order Code

Lead form	Standard packing	Qu	antity	Standard order code	Standard order code example
Surface-mounted type	Taping		3000	Type name – T +Direction (1 or 2) +3	FS5ASJ-2-T13
Surface-mounted type	Plastic Magazine (Tube)		75	Type name	FS5ASJ-2

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

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