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April 1st, 2010 Renesas Electronics Corporation

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

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FX6ASJ-06

High-Speed Switching Use Pch Power MOS FET

> REJ03G1437-0300 Rev.3.00 Dec 19, 2008

Features

Drive voltage: 4 V

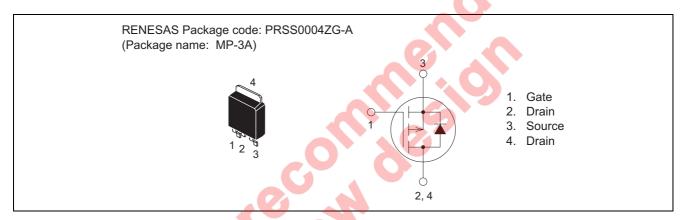
 V_{DSS} : -60 V

 $r_{\rm DS(ON)\,(max)}$: 0.21 Ω

 $I_{\rm D}$: -6 A

• Integrated Fast Recovery Diode (TYP.): 50 ns

Outline



Applications

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

Maximum Ratings

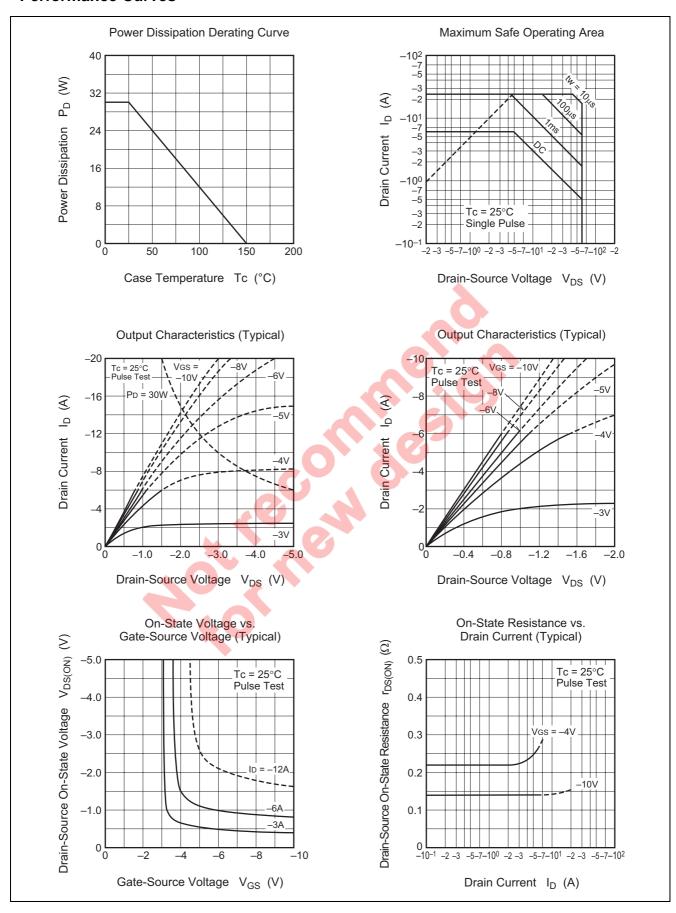
 $(Tc = 25^{\circ}C)$

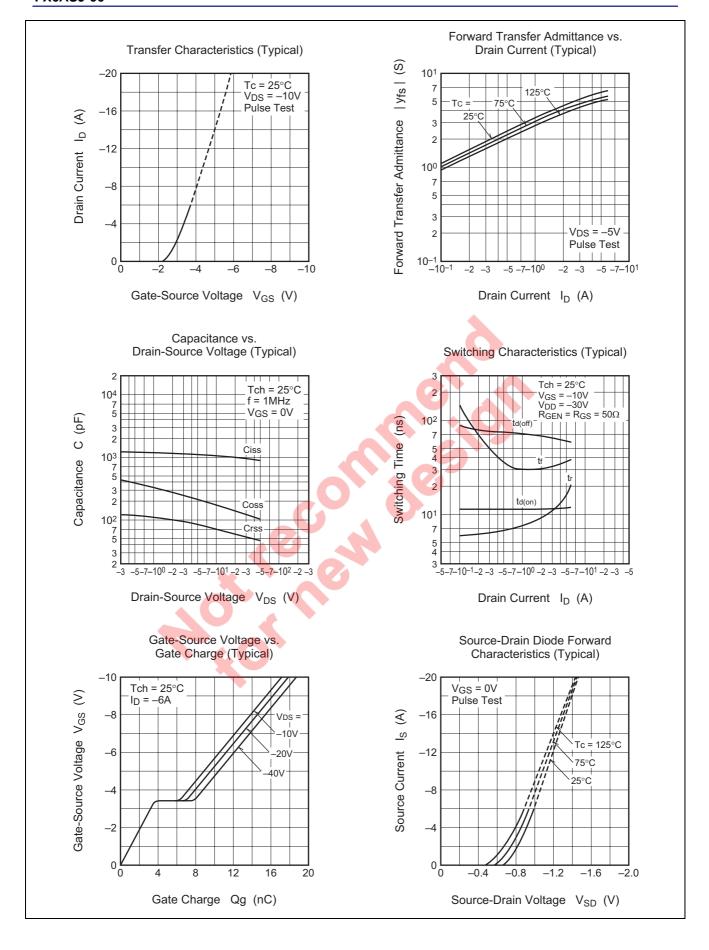
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V _{DSS}	-60	V	V _{GS} = 0 V
Gate-source voltage	V_{GSS}	±20	V	$V_{DS} = 0 V$
Drain current	I _D	-6	Α	
Drain current (Pulsed)	I _{DM}	-24	Α	
Avalanche drain current (Pulsed)	I _{DA}	-6	Α	L = 100 μH
Source current	Is	-6	Α	
Source current (Pulsed)	I _{SM}	-24	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

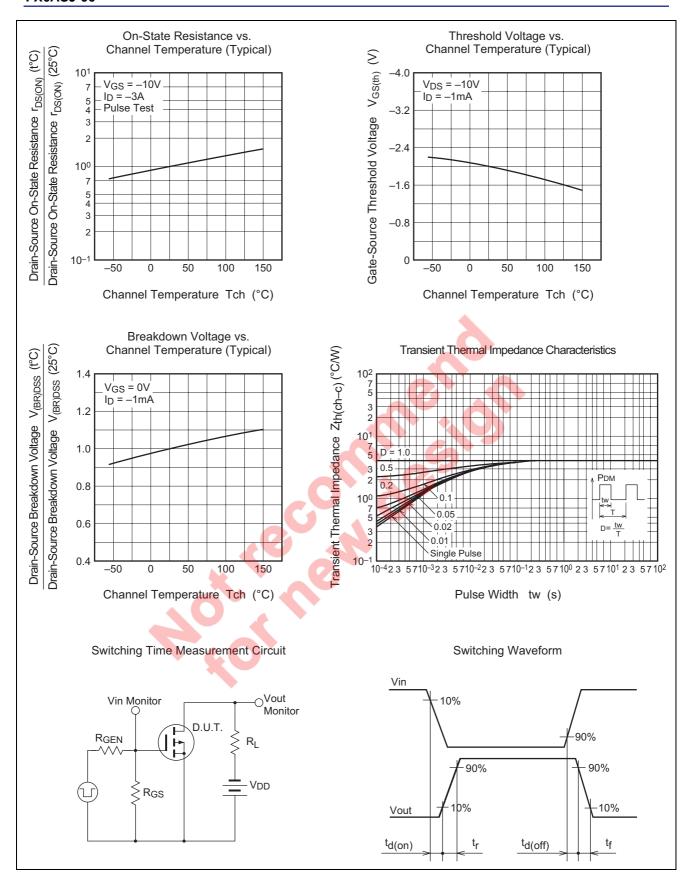
Electrical Characteristics

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

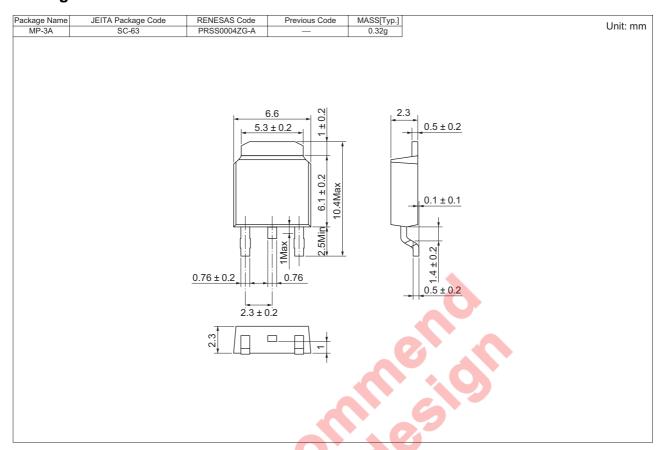
Performance Curves







Package Dimensions



Order Code

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Surface-mounted type	Taping	3000	Type name – T +Direction (1 or 2) +3	FX6ASJ-06-T13
Surface-mounted type	Plastic Magazine (Tube)	75	Type name	FX6ASJ-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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