

FS30KMJ-2

High-Speed Switching Use Nch Power MOS FET

> REJ03G1414-0200 (Previous: MEJ02G0065-0101)

Rev.2.00

Aug 07, 2006

Features

Drive voltage: 4 V V_{DSS} : 100 V

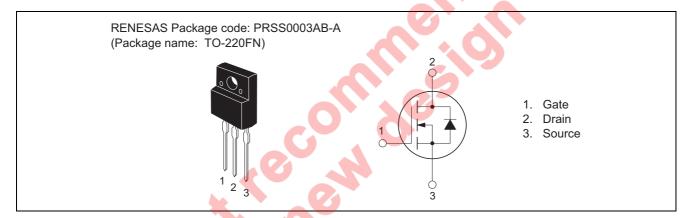
 $r_{DS(ON) \, (max)}$: 84 m Ω

 $I_D: 30 A$

Integrated Fast Recovery Diode (TYP.): 80 ns

Viso: 2000 V

Outline



Applications

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

Maximum Ratings

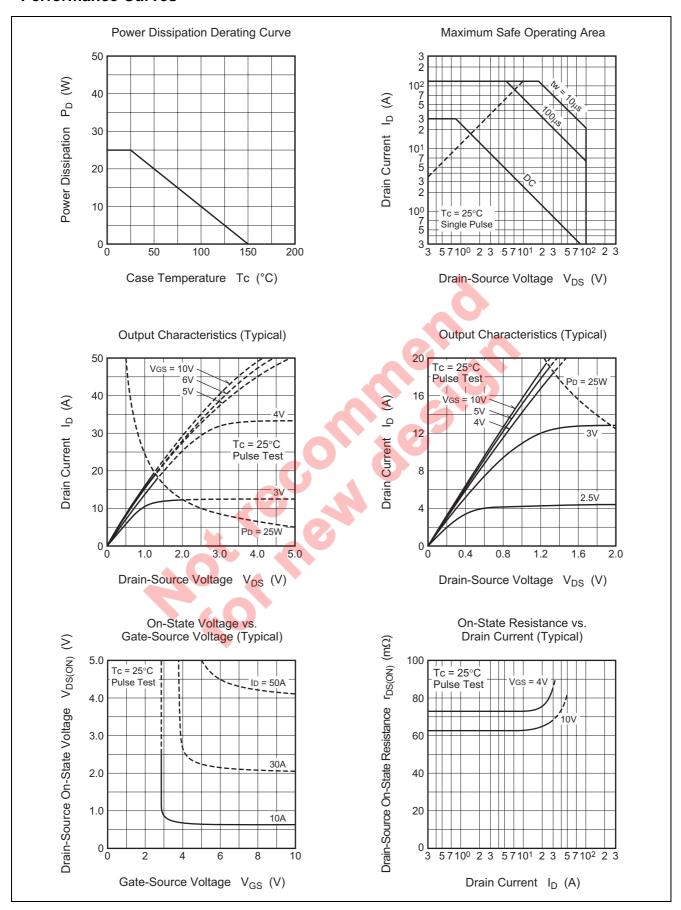
 $(Tc = 25^{\circ}C)$

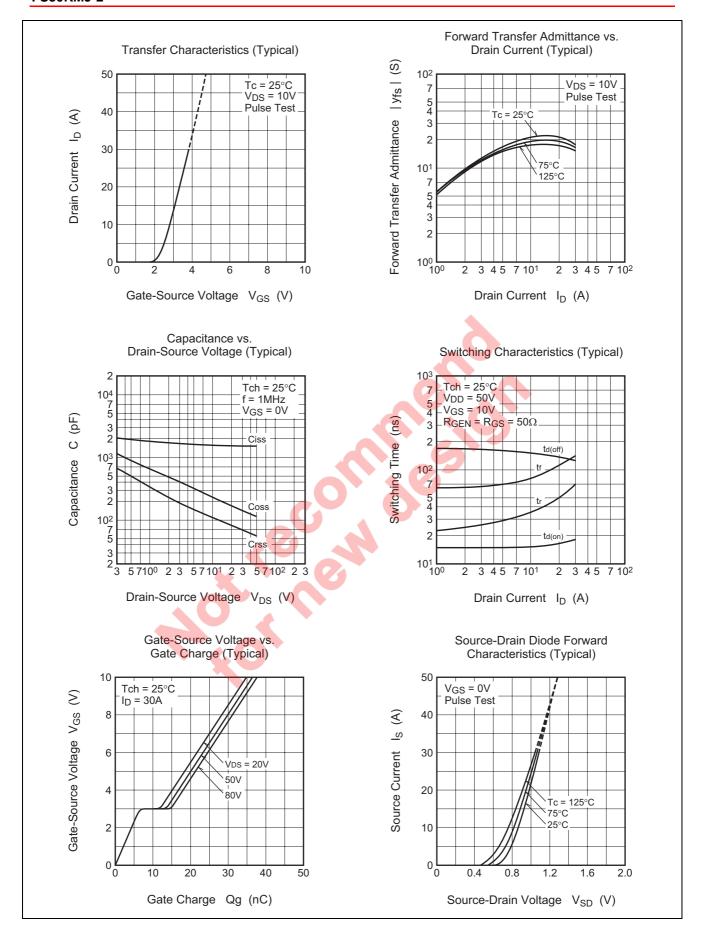
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V_{DSS}	100	V	V _{GS} = 0 V
Gate-source voltage	V_{GSS}	±20	V	V _{DS} = 0 V
Drain current	I _D	30	Α	
Drain current (Pulsed)	I _{DM}	120	Α	
Avalanche drain current (Pulsed)	I _{DA}	30	Α	L = 100 μH
Source current	Is	30	Α	
Source current (Pulsed)	I _{SM}	120	Α	
Maximum power dissipation	P _D	25	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Isolation voltage	Viso	2000	V	AC for 1 minute,
				Terminal to case
Mass	_	2.0	g	Typical value

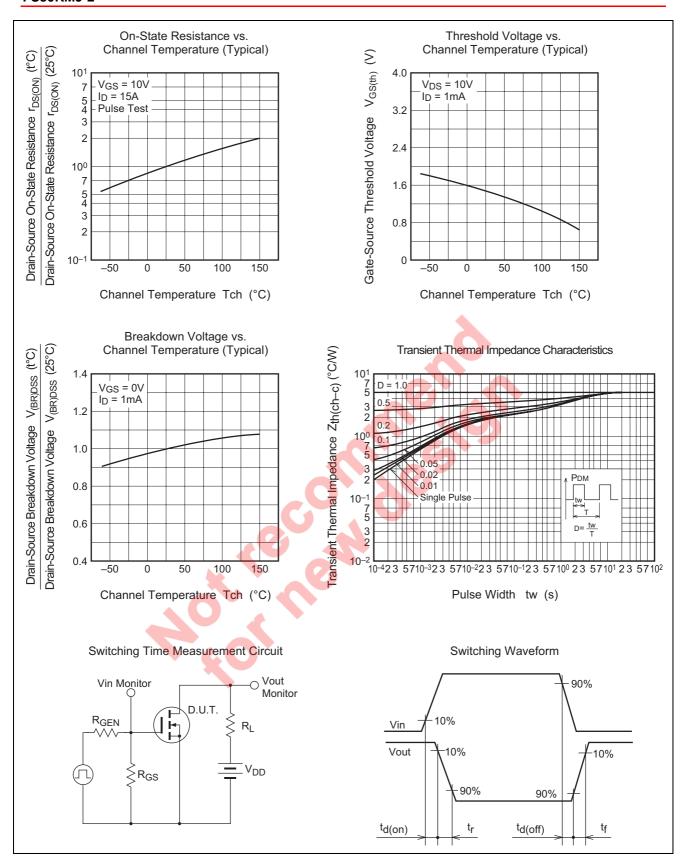
Electrical Characteristics

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

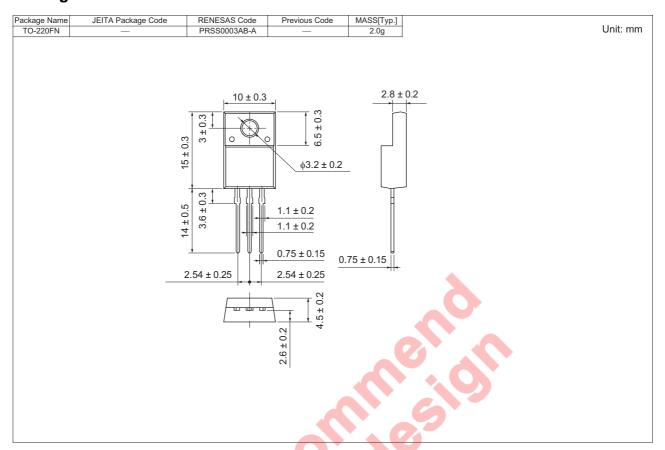
Performance Curves







Package Dimensions



Order Code

Lead form	Standard packing	Qı	uantity	Standard order code	Standard order code example
Straight type	Plastic Magazine (Tube)		50	Type name	FS30KMJ-2
Lead form	Plastic Magazine (Tube)		50	Type name – Lead forming code	FS30KMJ-2-A8

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

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