Old Company Name in Catalogs and Other Documents

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April 1st, 2010 Renesas Electronics Corporation

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

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FX50KMJ-2

High-Speed Switching Use Pch Power MOS FET

REJ03G1452-0200

(Previous: MEJ02G0284-0101)

Rev.2.00 Aug 07, 2006

Features

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

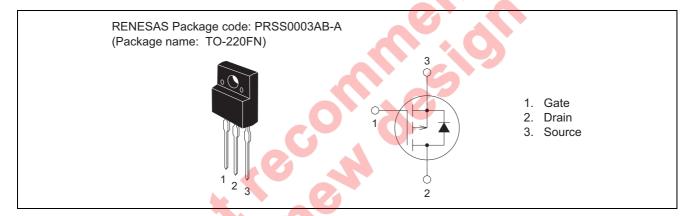
• $r_{DS(ON) (max)}$: 50 m Ω

• I_D: -50 A

• Integrated Fast Recovery Diode (TYP.): 100 ns

• Viso: 2000 V

Outline



Applications

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

Maximum Ratings

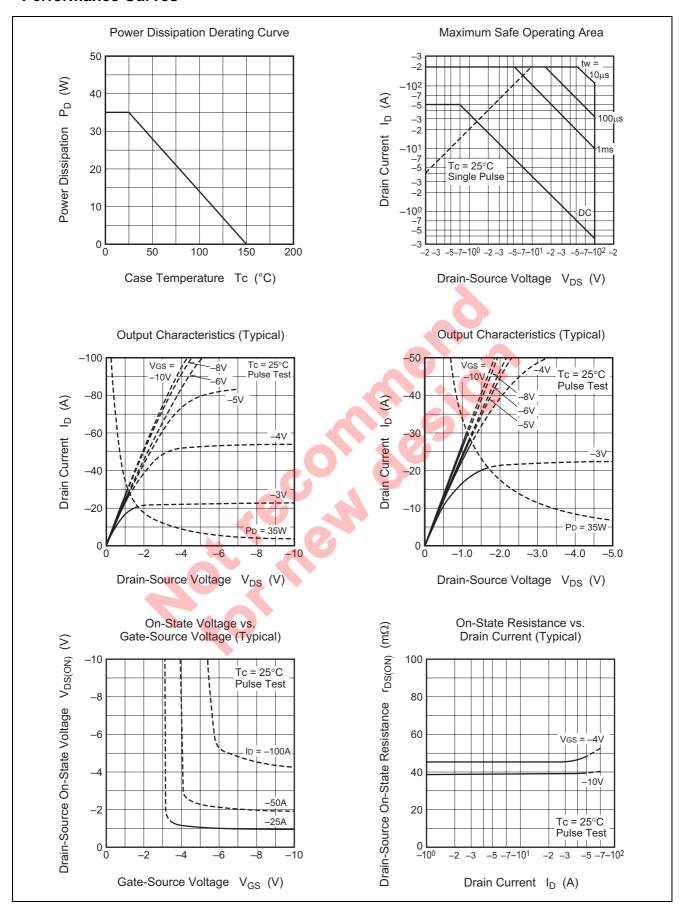
 $(Tc = 25^{\circ}C)$

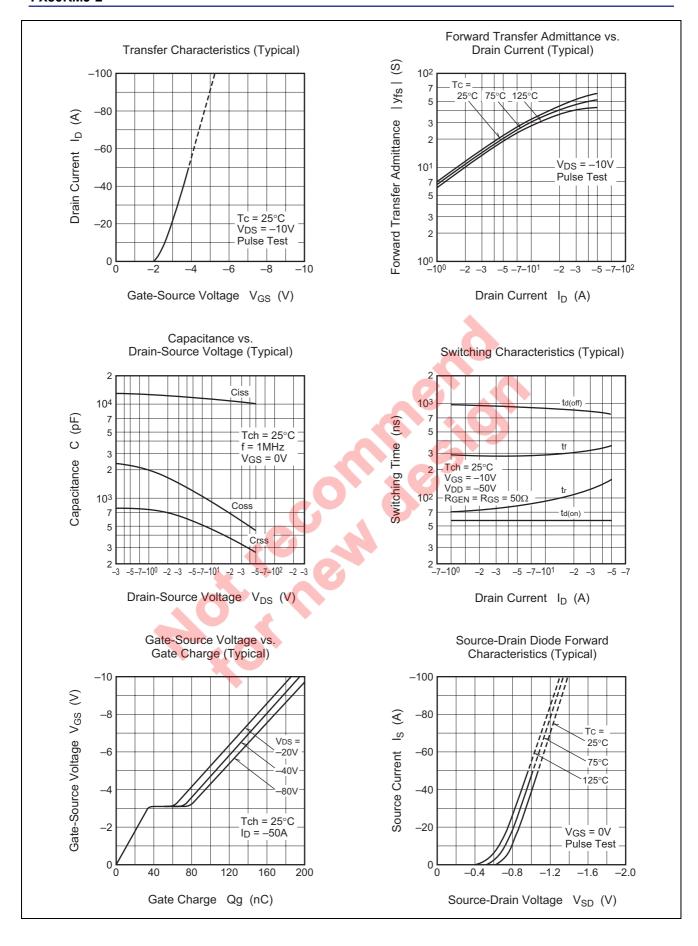
Parameter	Symbol	Ratings	Unit	Conditions	
Drain-source voltage	V_{DSS}	-100	V	V _{GS} = 0 V	
Gate-source voltage	V_{GSS}	±20	V	$V_{DS} = 0 V$	
Drain current	I_D	-50	Α		
Drain current (Pulsed)	I_{DM}	-200	А		
Avalanche drain current (Pulsed)	I _{DA}	– 50	А	L = 30 μH	
Source current	Is	-50	Α		
Source current (Pulsed)	I _{SM}	-200	А		
Maximum power dissipation	P _D	35	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	<u> </u>	2.0	g	Typical value	

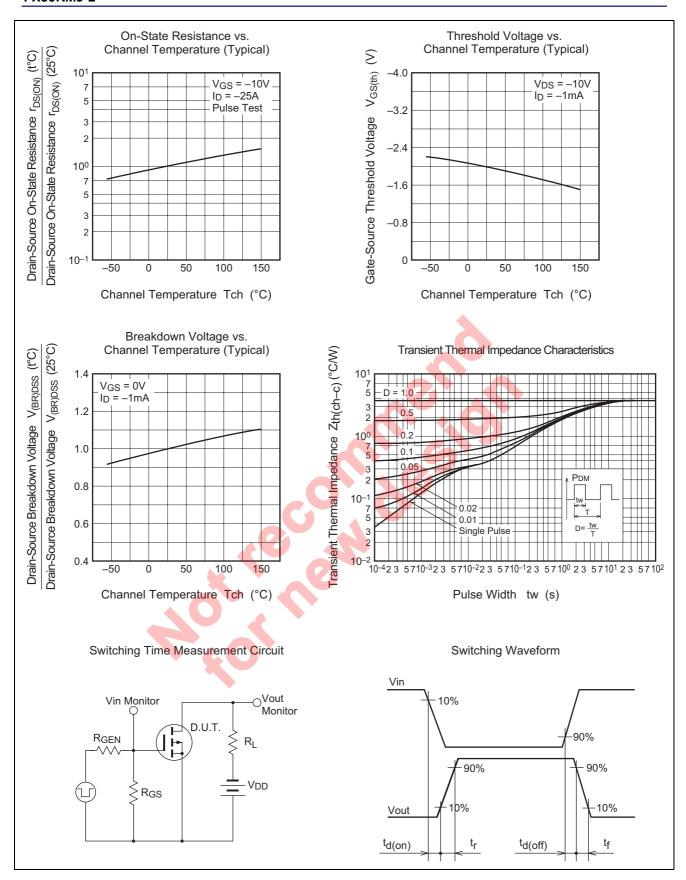
Electrical Characteristics

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

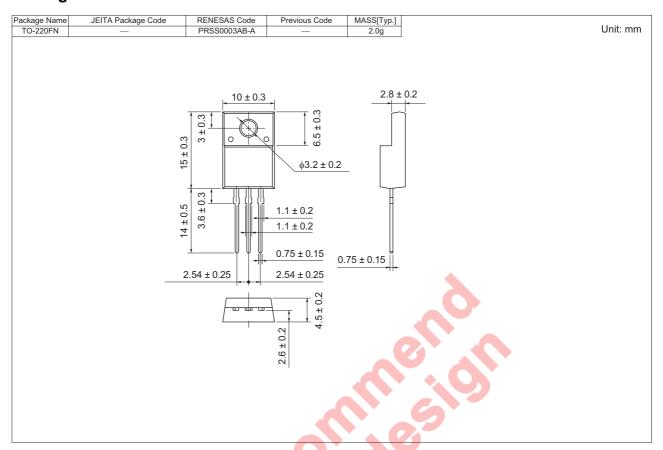
Performance Curves







Package Dimensions



Order Code

Lead form	Standard packing	ng Quantity		Standard order code	Standard order code example
Straight type	Plastic Magazine (Tube)		50	Type name	FX50KMJ-2
Lead form	Plastic Magazine (Tube)		50	Type name – Lead forming code	FX50KMJ-2-A8

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