

# FX20KMJ-3

High-Speed Switching Use Pch Power MOS FET

REJ03G1444-0200

(Previous: MEJ02G0289-0101) Rev.2.00

Aug 07, 2006

#### **Features**

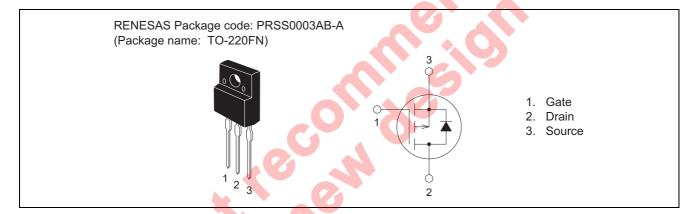
• Drive voltage: 4 V  $V_{\rm DSS}$ : -150~V $r_{\rm DS(ON)\,(max)}$ : 0.29  $\Omega$ 

 $I_D : -20 A$ 

Integrated Fast Recovery Diode (TYP.): 100 ns

Viso: 2000 V

### **Outline**



## **Applications**

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

## **Maximum Ratings**

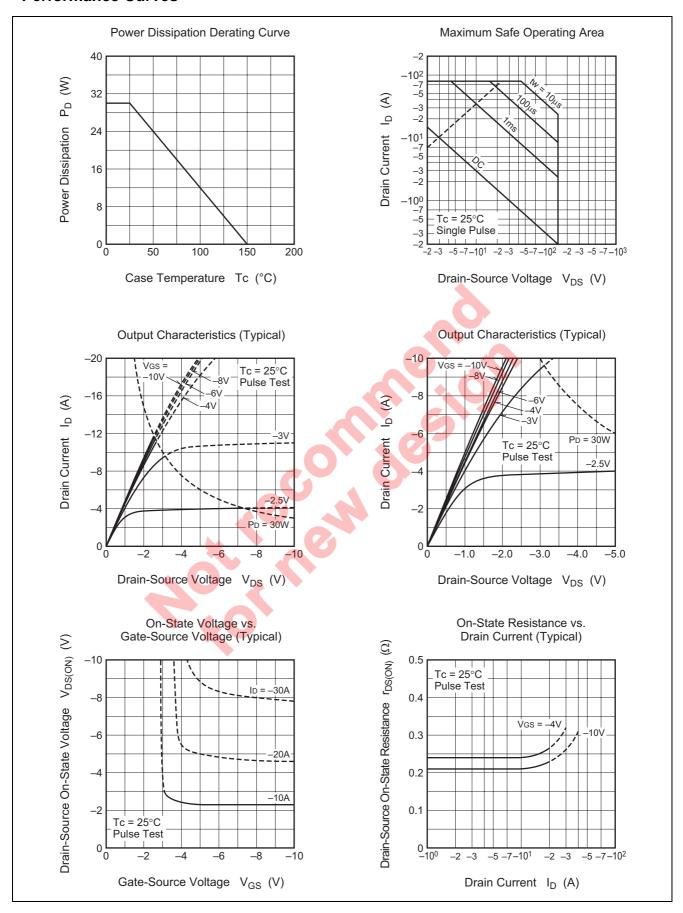
 $(Tc = 25^{\circ}C)$ 

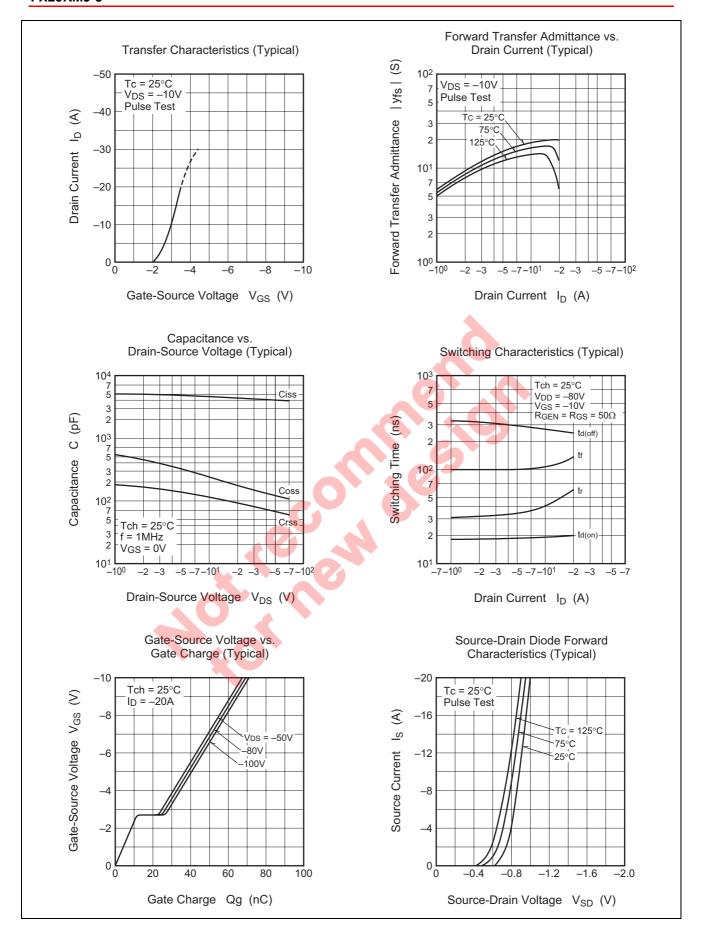
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	$V_{DSS}$	-150	V	$V_{GS} = 0 V$
Gate-source voltage	$V_{GSS}$	±20	V	$V_{DS} = 0 V$
Drain current	I <sub>D</sub>	-20	Α	
Drain current (Pulsed)	I <sub>DM</sub>	-80	Α	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	-20	Α	L = 30 μH
Source current	Is	-20	Α	
Source current (Pulsed)	I <sub>SM</sub>	-80	А	
Maximum power dissipation	P <sub>D</sub>	30	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

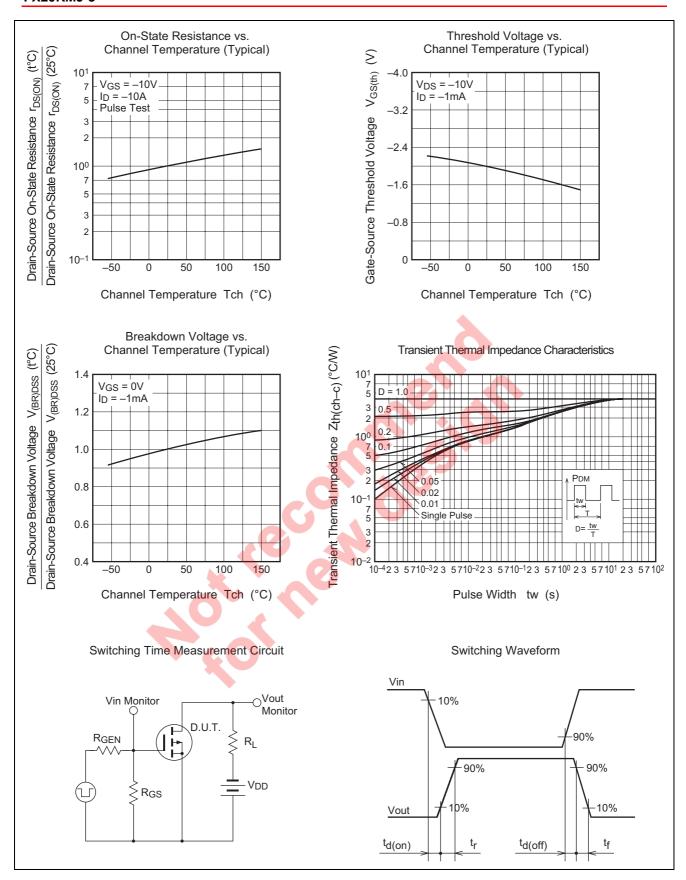
## **Electrical Characteristics**

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

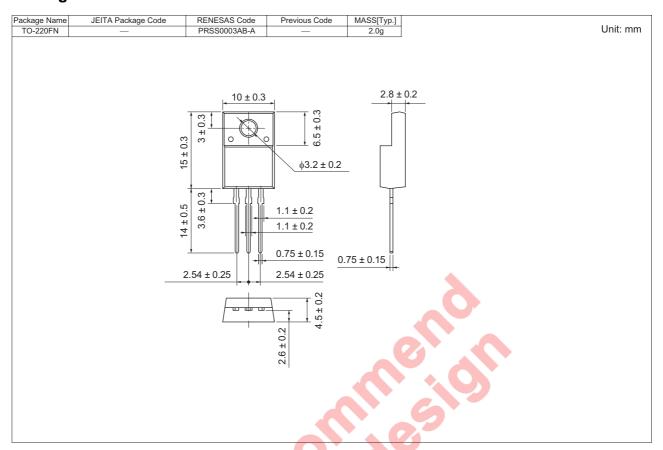
## **Performance Curves**







## **Package Dimensions**



## **Order Code**

Lead form	Standard packing	Quanti	ty	Standard order code	Standard order code example
Straight type	Plastic Magazine (Tube)		50	Type name	FX20KMJ-3
Lead form	Plastic Magazine (Tube)		50	Type name – Lead forming code	FX20KMJ-3-A8

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



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**Renesas Technology Korea Co., Ltd.**Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510