

# **FX50KMJ-03**

High-Speed Switching Use Pch Power MOS FET

REJ03G1450-0200

(Previous: MEJ02G0268-0101)

Rev.2.00 Aug 07, 2006

### **Features**

• Drive voltage: 4 V

 $\bullet \quad V_{DSS}:-30 \ V$ 

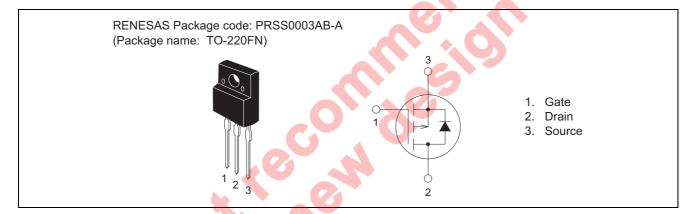
•  $r_{DS(ON) (max)}$ : 35 m $\Omega$ 

• I<sub>D</sub>: -50 A

• Integrated Fast Recovery Diode (TYP.): 55 ns

• Viso: 2000 V

## **Outline**



## **Applications**

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

## **Maximum Ratings**

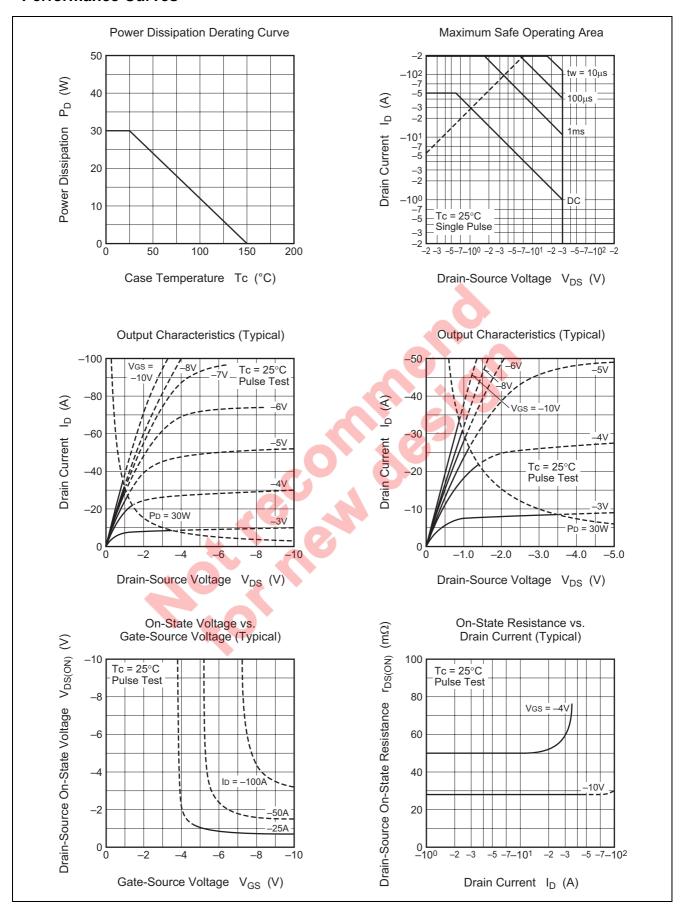
 $(Tc = 25^{\circ}C)$ 

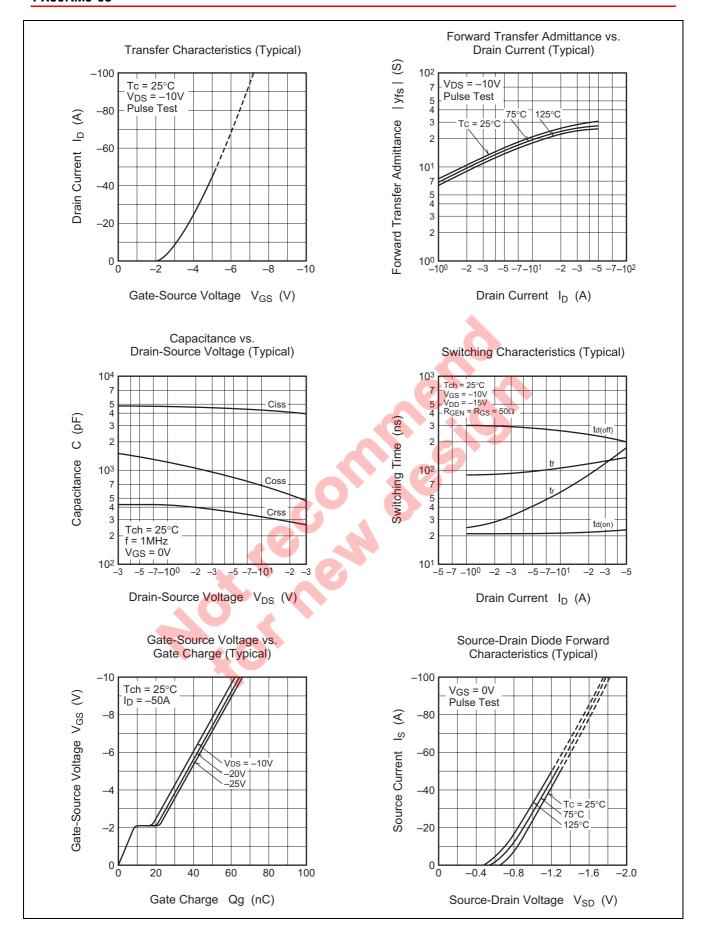
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	$V_{DSS}$	-30	V	$V_{GS} = 0 V$
Gate-source voltage	$V_{GSS}$	±20	V	$V_{DS} = 0 V$
Drain current	I <sub>D</sub>	-50	Α	
Drain current (Pulsed)	I <sub>DM</sub>	-200	А	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	-50	Α	L = 10 μH
Source current	Is	-50	Α	
Source current (Pulsed)	I <sub>SM</sub>	-200	Α	
Maximum power dissipation	$P_{D}$	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

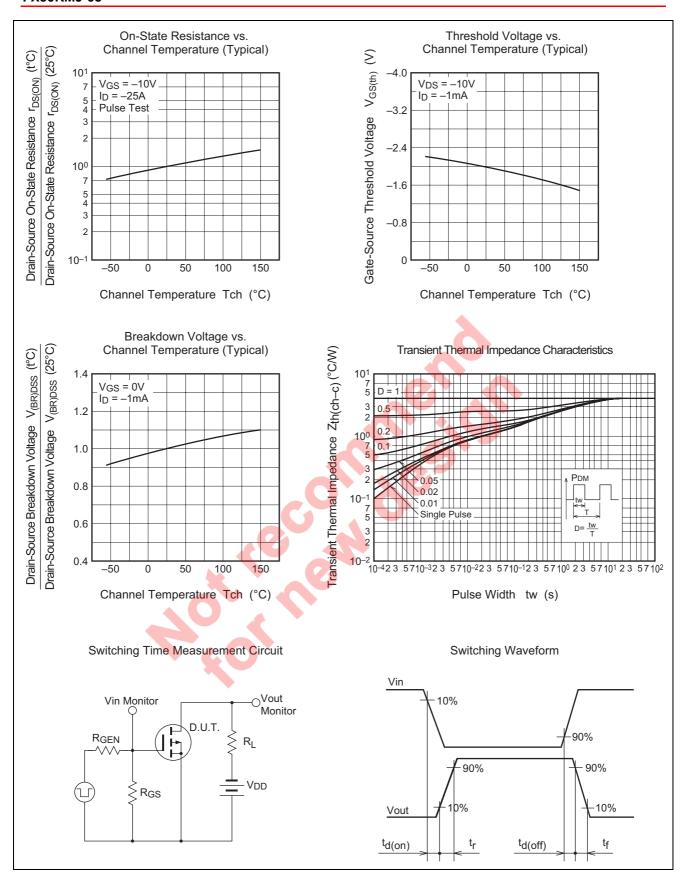
## **Electrical Characteristics**

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

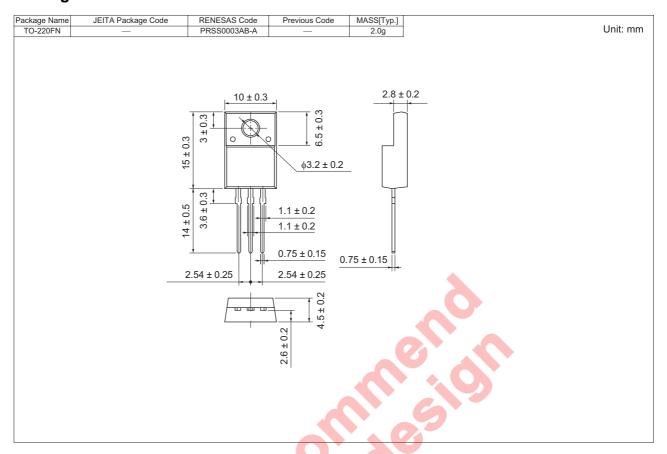
### **Performance Curves**







## **Package Dimensions**



## **Order Code**

Lead form	Standard packing	Qu	antity	Standard order code	Standard order code example
Straight type	Plastic Magazine (Tube)		50	Type name	FX50KMJ-03
Lead form	Plastic Magazine (Tube)		50	Type name – Lead forming code	FX50KMJ-03-A8

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





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