# Old Company Name in Catalogs and Other Documents

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# FS50KMJ-2

High-Speed Switching Use Nch Power MOS FET

REJ03G1420-0200 (Previous: MEJ02G0067-0101)

Rev.2.00

Aug 07, 2006

### **Features**

Drive voltage: 4 V
 V<sub>DSS</sub>: 100 V

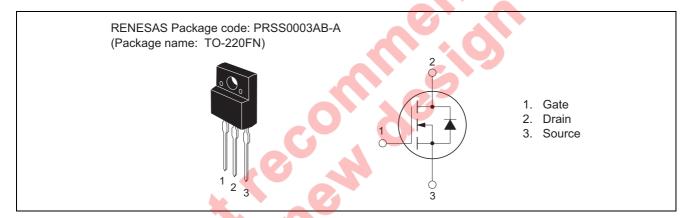
•  $r_{DS(ON) (max)}$ : 48 m $\Omega$ 

• I<sub>D</sub>: 50 A

• Integrated Fast Recovery Diode (TYP.): 90 ns

• Viso: 2000 V

### **Outline**



### **Applications**

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

# **Maximum Ratings**

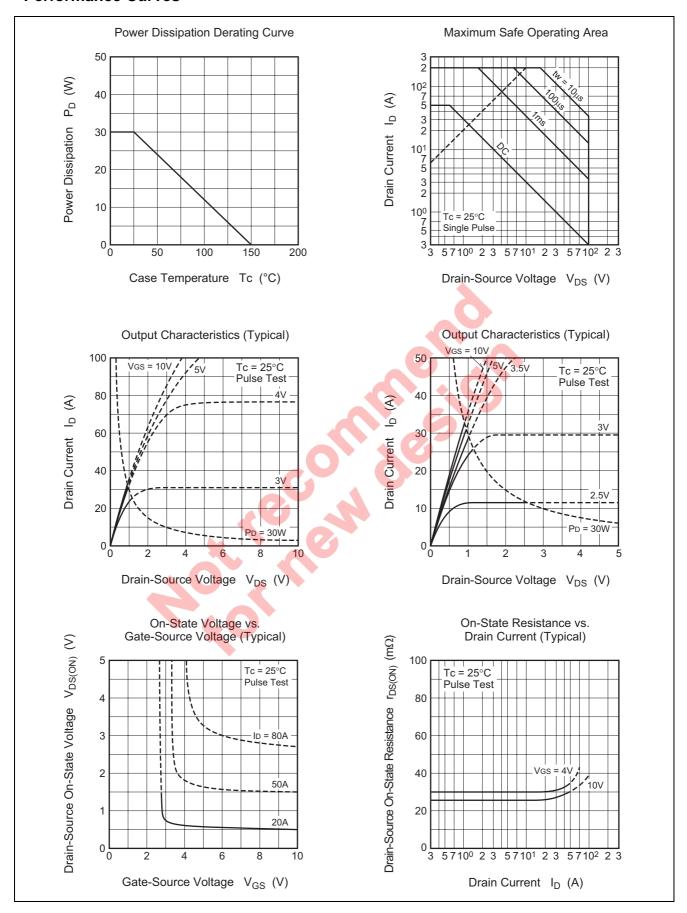
 $(Tc = 25^{\circ}C)$ 

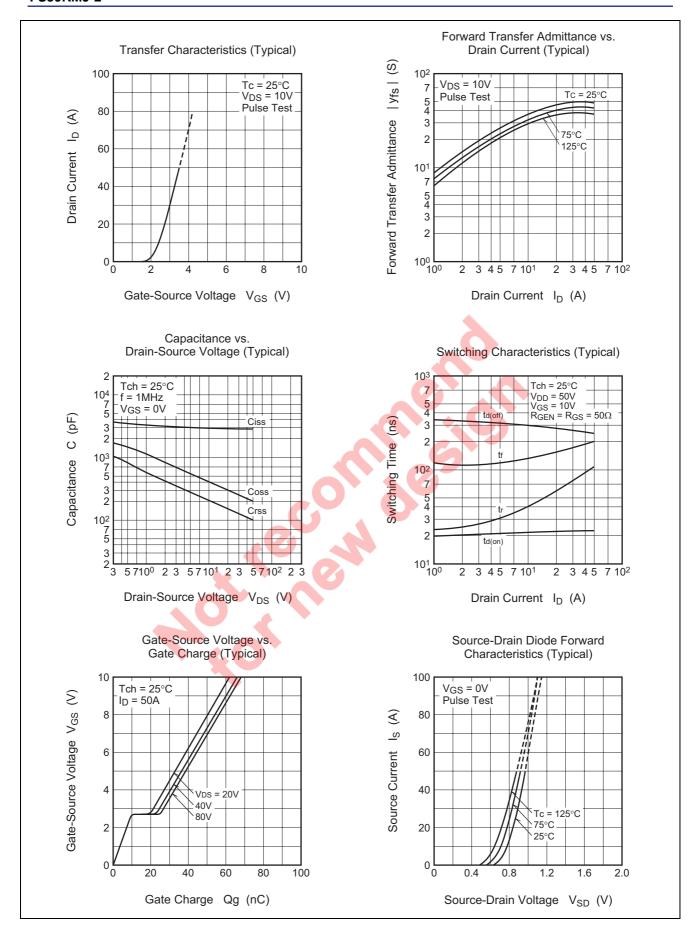
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	$V_{DSS}$	100	V	V <sub>GS</sub> = 0 V
Gate-source voltage	$V_{GSS}$	±20	V	V <sub>DS</sub> = 0 V
Drain current	I <sub>D</sub>	50	А	
Drain current (Pulsed)	I <sub>DM</sub>	200	А	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	50	Α	L = 50 μH
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

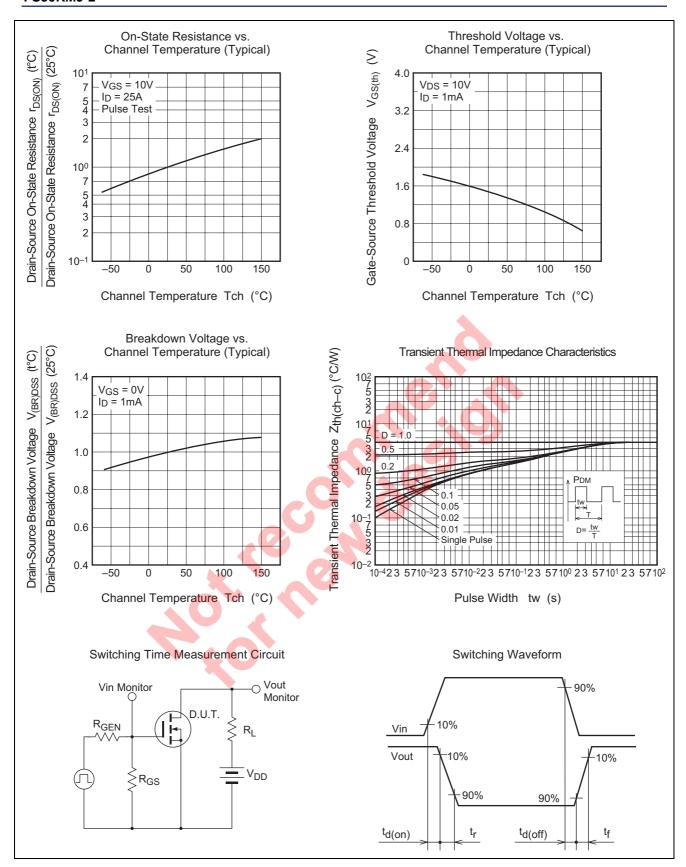
### **Electrical Characteristics**

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

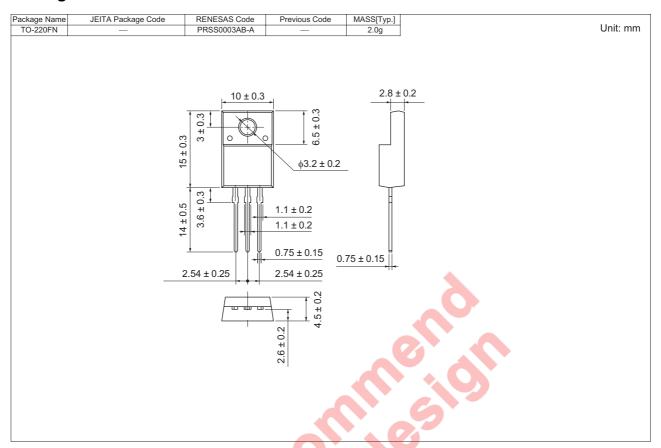
### **Performance Curves**







# **Package Dimensions**



# **Order Code**

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Straight type	Plastic Magazine (Tube)	50	Type name	FS50KMJ-2
Lead form	Plastic Magazine (Tube)	50	Type name – Lead forming code	FS50KMJ-2-A8

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

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