

# FS70UMJ-2

High-Speed Switching Use Nch Power MOS FET

> REJ03G1435-0200 (Previous: MEJ02G0072-0101)

> > Rev.2.00 Aug 07, 2006

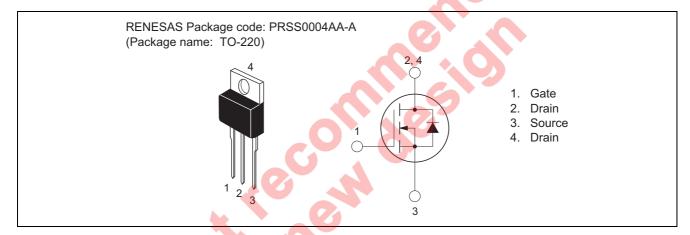
#### **Features**

• Drive voltage: 4 V  $V_{DSS}$ : 100 V  $r_{\rm DS(ON)\,(max)}$ : 17 m $\Omega$ 

• I<sub>D</sub>: 70 A

Integrated Fast Recovery Diode (TYP.): 115 ns

## **Outline**



## **Applications**

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

## **Maximum Ratings**

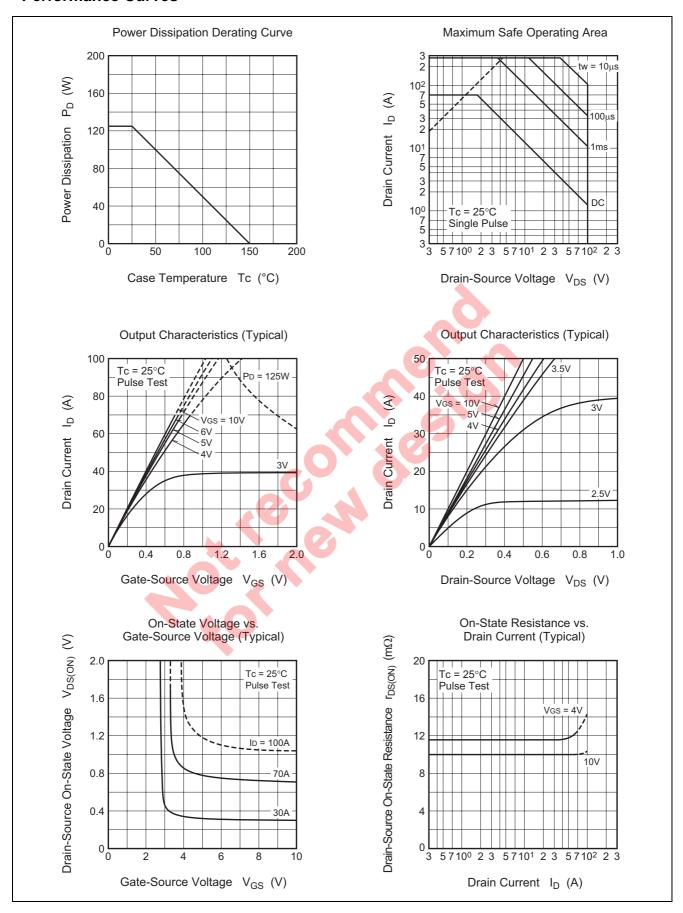
 $(Tc = 25^{\circ}C)$ 

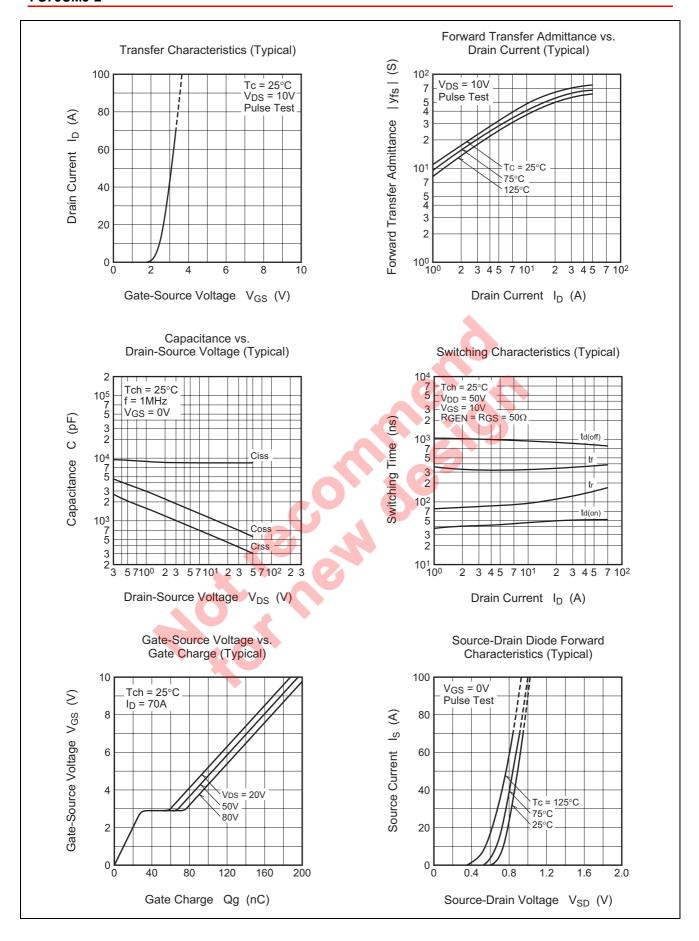
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	$V_{DSS}$	100	V	$V_{GS} = 0 V$
Gate-source voltage	$V_{GSS}$	±20	V	$V_{DS} = 0 V$
Drain current	I <sub>D</sub>	70	А	
Drain current (Pulsed)	I <sub>DM</sub>	280	А	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	70	А	L = 100 μH
Source current	I <sub>S</sub>	70	А	
Source current (Pulsed)	I <sub>SM</sub>	280	А	
Maximum power dissipation	P <sub>D</sub>	125	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	_	2.0	g	Typical value

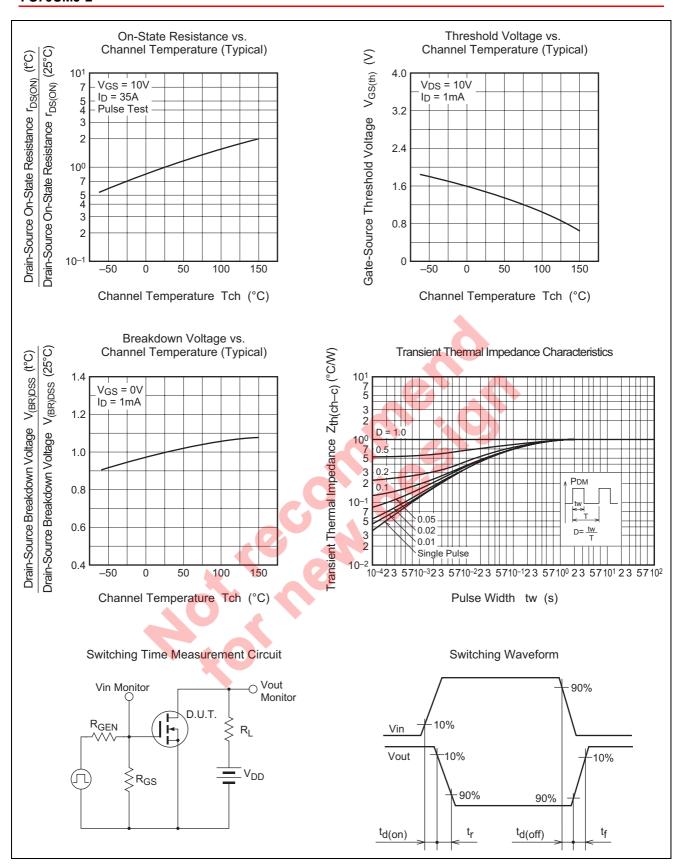
## **Electrical Characteristics**

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

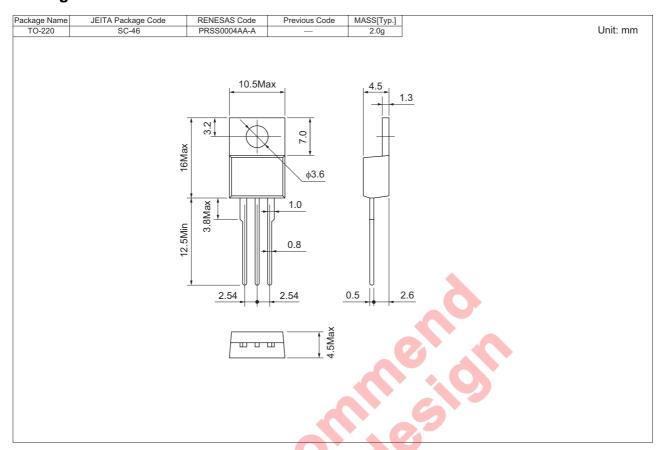
## **Performance Curves**







## **Package Dimensions**



## **Order Code**

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Straight type	Static electricity prevention bag	100	Type name	FS70UMJ-2
Lead form	Plastic Magazine (Tube)	50	Type name – Lead forming code	FS70UMJ-2-A8

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

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