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# **FS50UM-3**

High-Speed Switching Use Nch Power MOS FET

REJ03G1424-0200

(Previous: MEJ02G0118-0101)

Rev.2.00 Aug 07, 2006

#### **Features**

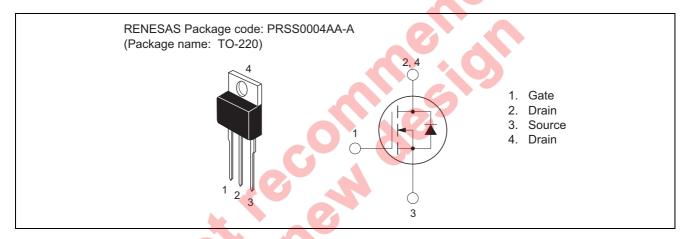
Drive voltage : 10 VV<sub>DSS</sub> : 150 V

•  $r_{DS(ON) (max)} : 31 \text{ m}\Omega$ 

• I<sub>D</sub>: 50 A

• Integrated Fast Recovery Diode (TYP.): 130 ns

#### **Outline**



### **Applications**

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

### **Maximum Ratings**

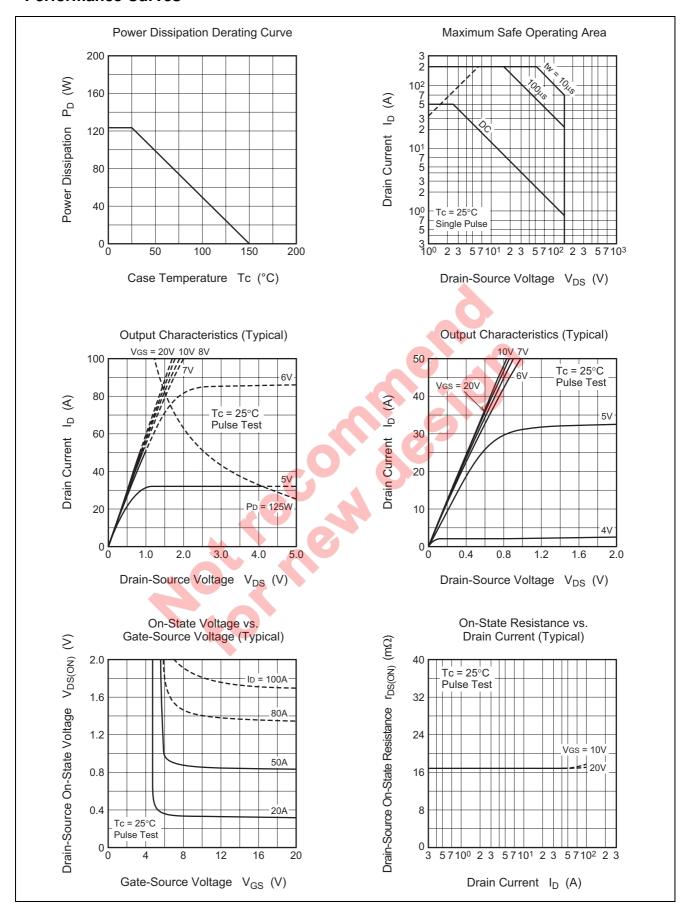
 $(Tc = 25^{\circ}C)$ 

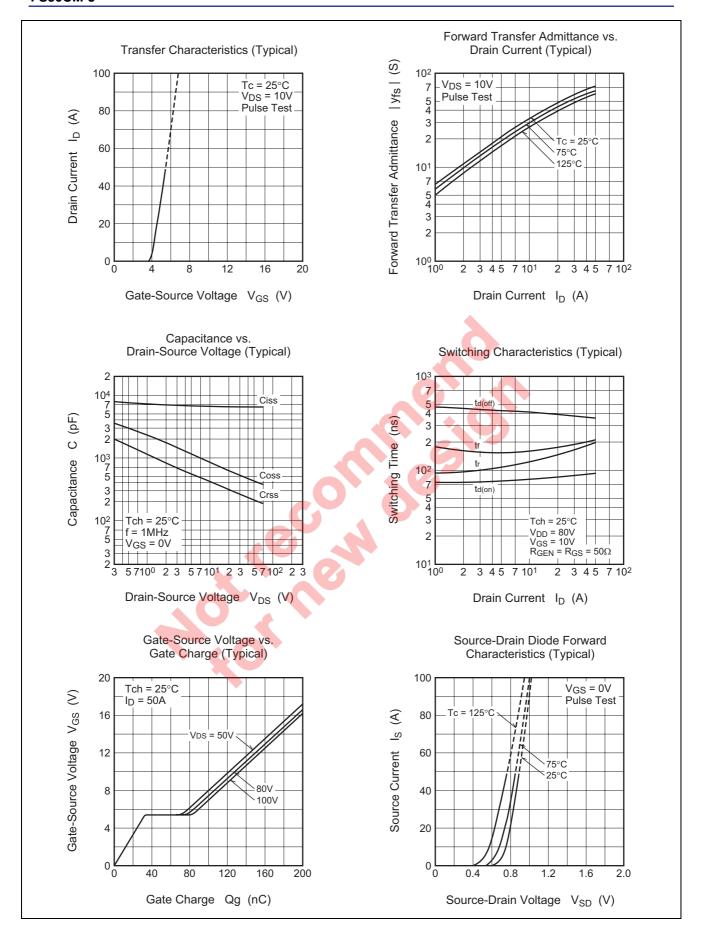
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	$V_{DSS}$	150	V	$V_{GS} = 0 V$
Gate-source voltage	$V_{GSS}$	±20	V	$V_{DS} = 0 V$
Drain current	$I_D$	50	Α	
Drain current (Pulsed)	I <sub>DM</sub>	200	Α	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	50	Α	L = 100 μH
Source current	Is	50	Α	
Source current (Pulsed)	I <sub>SM</sub>	200	Α	
Maximum power dissipation	$P_D$	125	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	_	2.0	g	Typical value

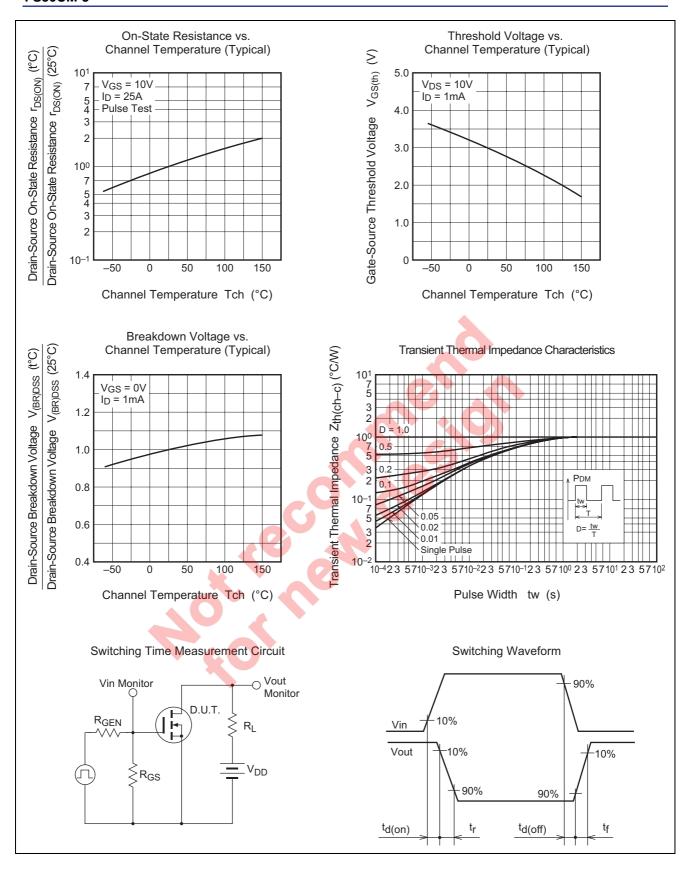
### **Electrical Characteristics**

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

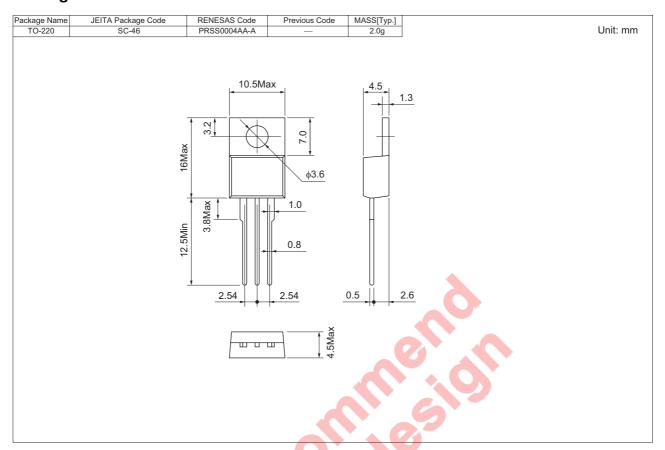
### **Performance Curves**







### **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	FS50UM-3
Lead form	Plastic Magazine (Tube)	50	Type name – Lead forming code	FS50UM-3-A8

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

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