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# **FS30VSJ-3**

High-Speed Switching Use Nch Power MOS FET

REJ03G1416-0200

(Previous: MEJ02G0081-0101)

Rev.2.00 Aug 07, 2006

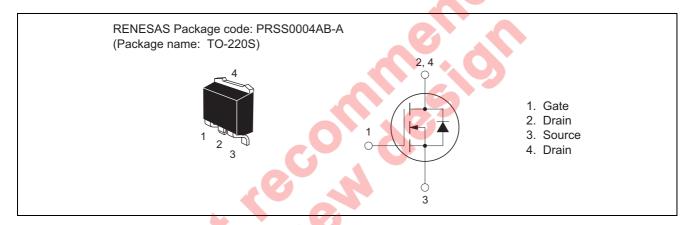
### **Features**

• Drive voltage : 4 V •  $V_{DSS}$  : 150 V •  $r_{DS(ON) \, (max)}$  : 86 m $\Omega$ 

• I<sub>D</sub>: 30 A

• Integrated Fast Recovery Diode (TYP.): 100 ns

## **Outline**



# **Applications**

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

# **Maximum Ratings**

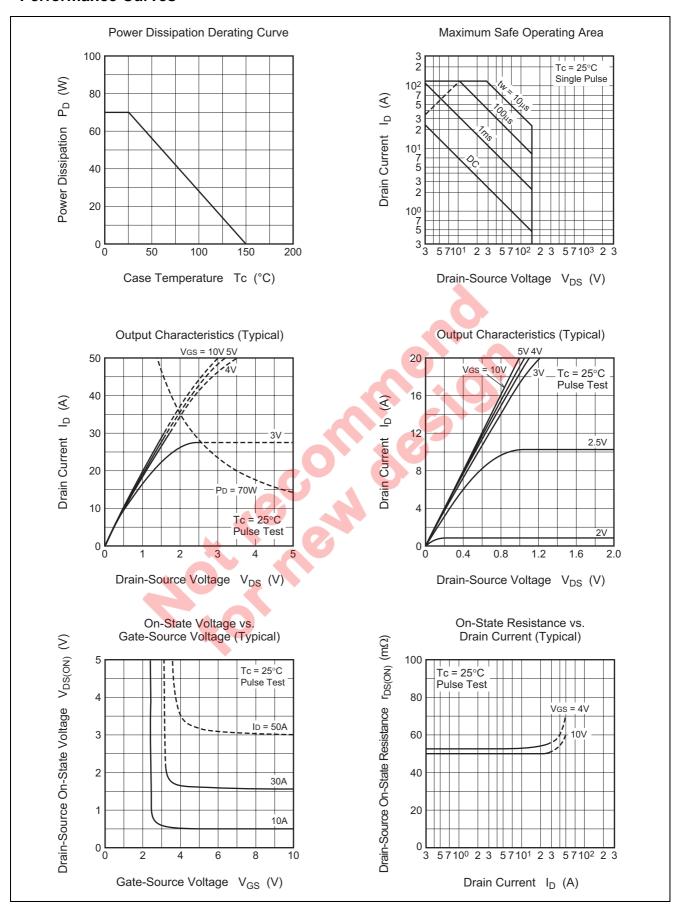
 $(Tc = 25^{\circ}C)$ 

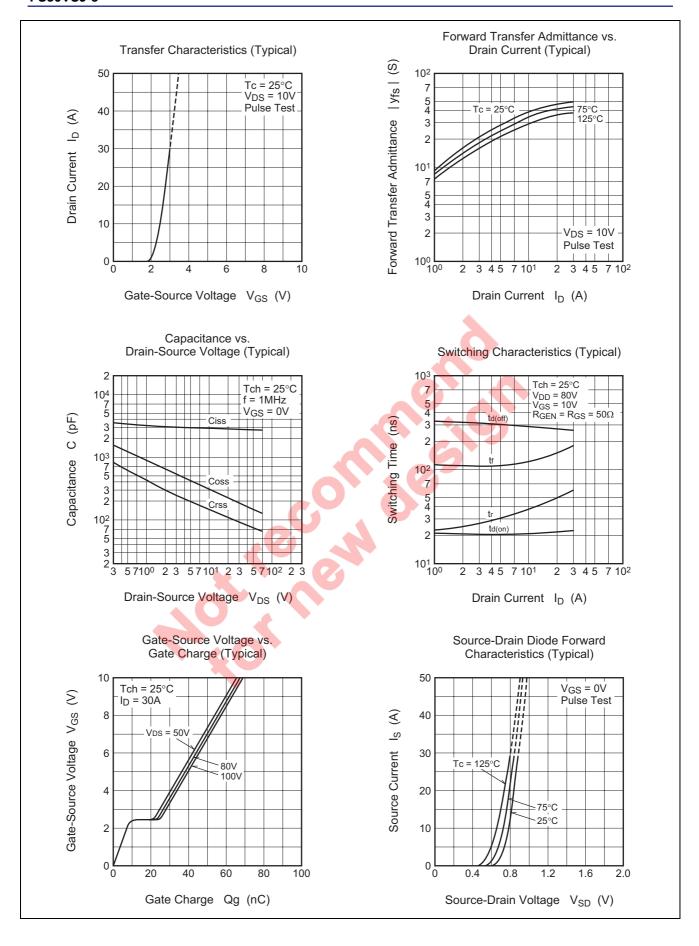
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	$V_{DSS}$	150	V	V <sub>GS</sub> = 0 V
Gate-source voltage	$V_{GSS}$	±20	V	$V_{DS} = 0 V$
Drain current	$I_D$	30	Α	
Drain current (Pulsed)	I <sub>DM</sub>	120	Α	
Avalanche drain current (Pulsed)	I <sub>DA</sub>	30	Α	L = 100 μH
Source current	Is	30	Α	
Source current (Pulsed)	I <sub>SM</sub>	120	Α	
Maximum power dissipation	$P_D$	70	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	_	1.2	g	Typical value

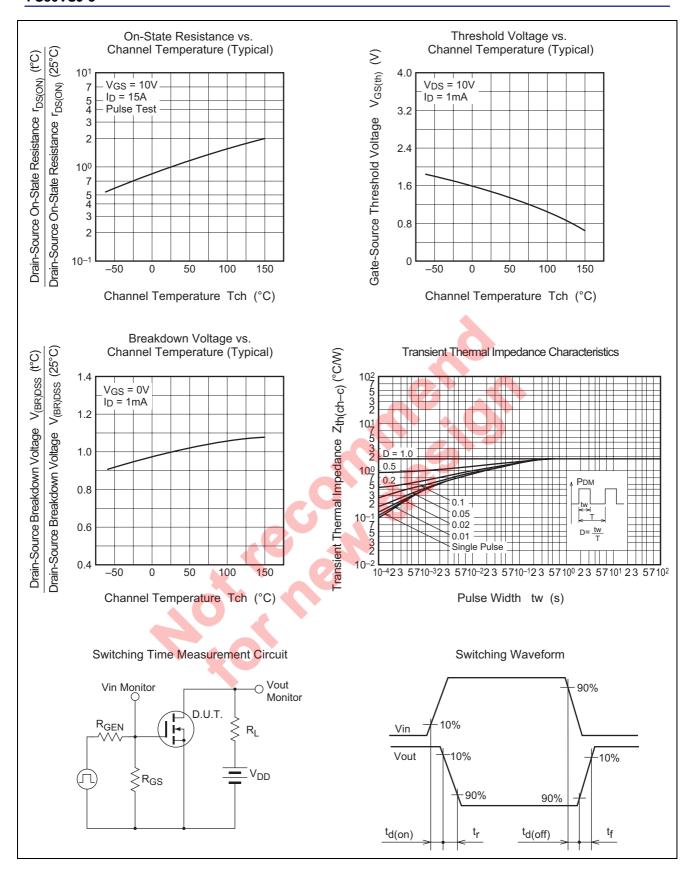
### **Electrical Characteristics**

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

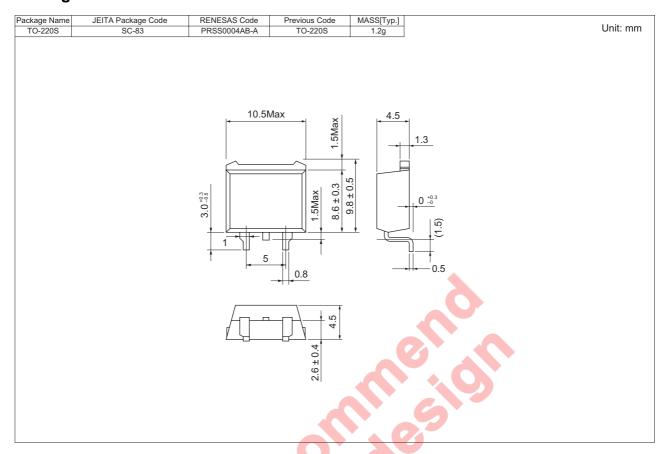
# **Performance Curves**







# **Package Dimensions**



# **Order Code**

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Surface-mounted type	Taping	1000	Type name – T +Direction (1 or 2) +1	FS30VSJ-3-T11
Surface-mounted type	Plastic Magazine (Tube)	50	Type name	FS30VSJ-3
Straight type	Plastic Magazine (Tube)	50	Type name +A1	FS30VSJ-3-A1

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

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