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Renesas Electronics website: http://www.renesas.com

April 1st, 2010 **Renesas Electronics Corporation**

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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RJK6009DPP

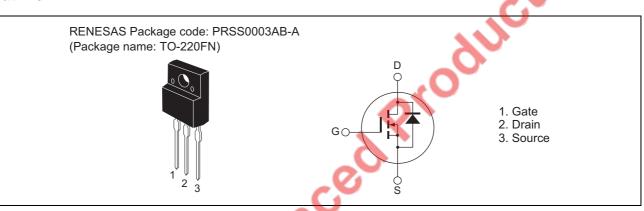
Silicon N Channel MOS FET High Speed Power Switching

> REJ03G1607-0100 Rev.1.00 Dec 04, 2007

Features

- Low on-resistance
- Low leakage current
- High speed switching

Outline



Absolute Maximum Ratings

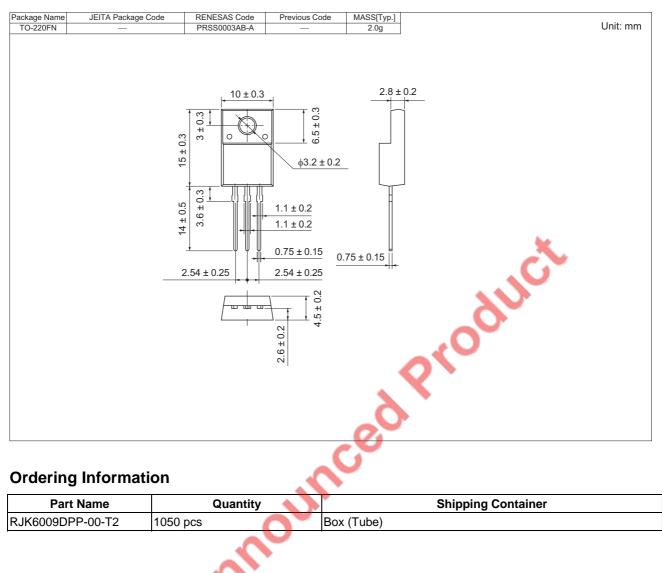
			$(Ta = 25^{\circ}C)$	
ltem	Symbol	Ratings	Unit	
Drain to source voltage	V _{DSS}	600	V	
Gate to source voltage	V _{GSS}	±30	V	
Drain current	I _D ^{Note4}	18	А	
Drain peak current	I _{D (pulse)} Note1	54	А	
Body-drain diode reverse drain current	I _{DR}	18	А	
Body-drain diode reverse drain peak current	I _{DR (pulse)} Note1	54	А	
Avalanche current	I _{AP} ^{Note3}	4	А	
Avalanche energy	E _{AR} Note3	0.87	mJ	
Channel dissipation	Pch Note2	40	W	
Channel to case thermal impedance	θch-c	3.125	°C/W	
Channel temperature	Tch	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

Notes: 1. PW \leq 10 $\mu s,$ duty cycle \leq 1%

- 2. Value at Tc = $25^{\circ}C$
- 3. STch = 25° C, Tch $\leq 150^{\circ}$ C
- 4. Limited by maximum safe operation area

Electrical Characteristics

Package Dimensions



Ordering Information

Part Name	Quantity			Shipping Container	
RJK6009DPP-00-T2	1050 pcs 🥂		Box (Tube)		
	31- anni	•			

RenesasTechnology Corp. sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

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