Old Company Name in Catalogs and Other Documents

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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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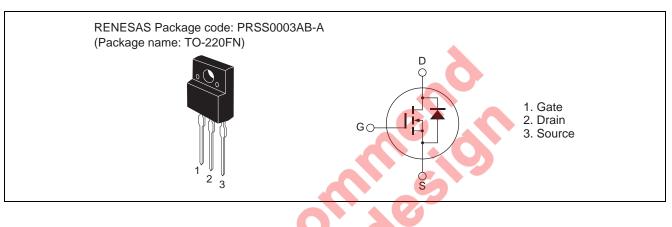
RJK5014DPP

Silicon N Channel MOS FET High Speed Power Switching

Features

- Low on-resistance $R_{DS(on)}=0.325~\Omega \mbox{ typ. (at }I_D=9.5~\mbox{A},~V_{GS}=10~\mbox{V},~Ta=25~\mbox{°C})$
- Low leakage current
- High speed switching

Outline



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	500	V
Gate to source voltage	V _{GSS}	±30	V
Drain current	I _D ^{Note4}	19	А
Drain peak current	Note1 I _{D (pulse)}	38	А
Body-drain diode reverse drain current	I _{DR}	19	А
Body-drain diode reverse drain peak current	Note1 I _{DR (pulse)}	38	А
Avalanche current	I _{AP} ^{Note3}	4	А
Avalanche energy	E _{AR} ^{Note3}	0.88	mJ
Channel dissipation	Pch Note2	35	W
Channel to case thermal impedance	θch-c	3.57	°C/W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	٥C

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

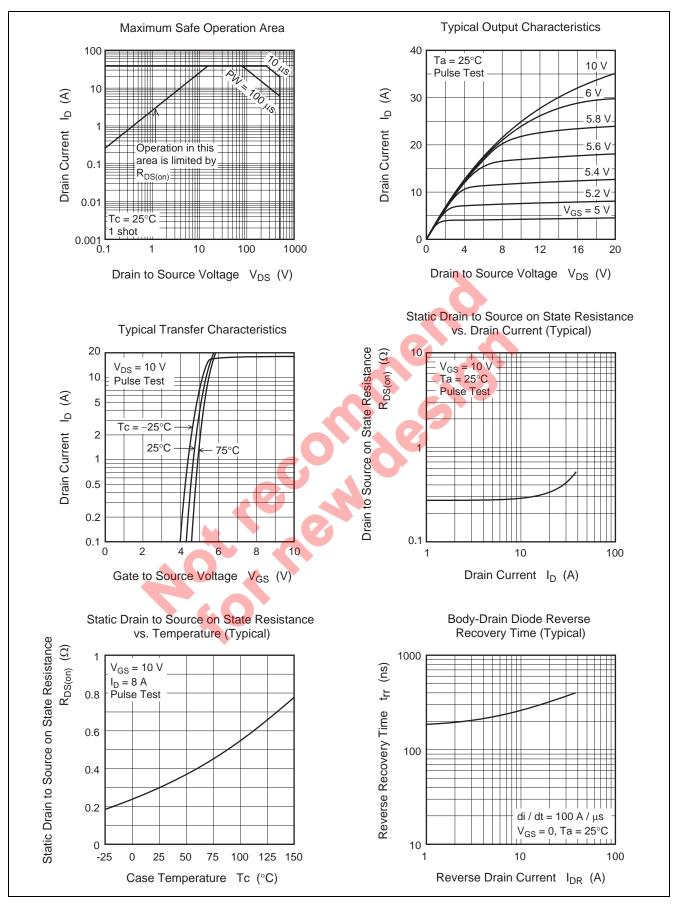
2. Value at Tc = 25°C

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

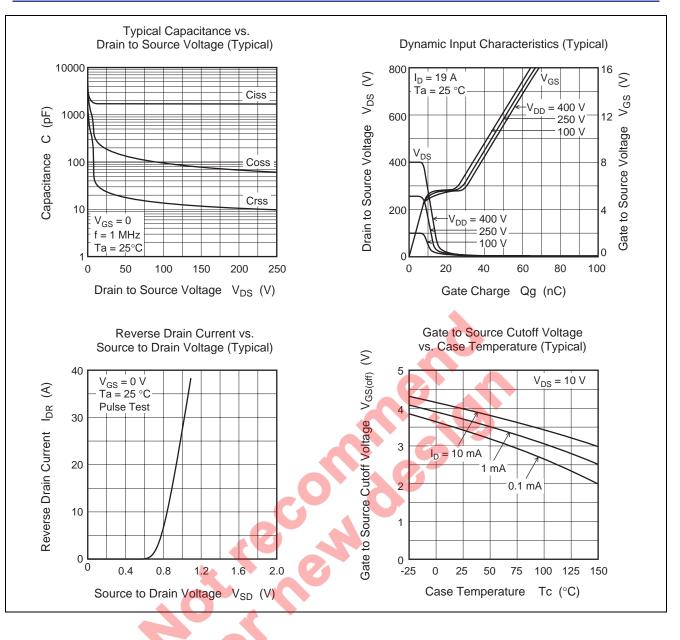
REJ03G1530-0200 Rev.2.00 Dec 02, 2009

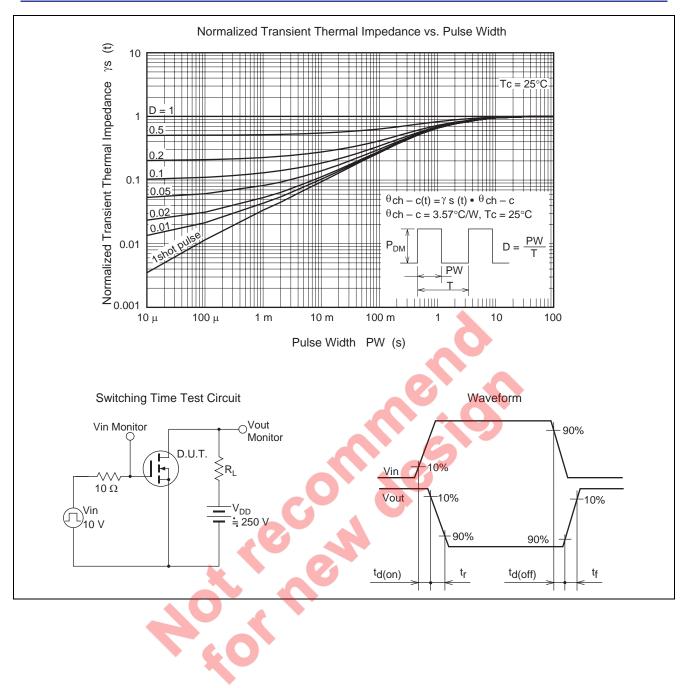
Electrical Characteristics

Main Characteristics



RENESAS





Package Dimensions

Package Name	JEITA Package Co	de RENESAS Code	Previous Code	MASS[Typ.]		
TO-220FN		PRSS0003AB-A	_	2.0g		Unit: mm
Drdering	Informatic		$\frac{1.1 \pm 0.2}{0.75 \pm 0.15}$.75 ± 0.15		
	t No.	Quantity			Shipping Container	
RJK5014DP	P-00-T2 1	1050 pcs	Box	(Tube)		
			00			

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