# Old Company Name in Catalogs and Other Documents

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# RJL6013DPP

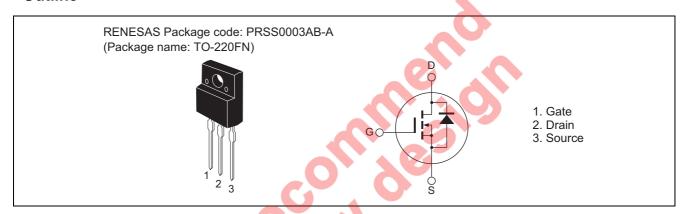
# Silicon N Channel MOS FET High Speed Power Switching

REJ03G1691-0200 Rev.2.00 Jun 13, 2008

### **Features**

- Built-in fast recovery diode
- Low on-resistance
- Low leakage current
- High speed switching

### **Outline**



# **Absolute Maximum Ratings**

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

Item	Symbol	Ratings	Unit
Drain to source voltage	$V_{DSS}$	600	V
Gate to source voltage	$V_{GSS}$	±30	V
Drain current	I <sub>D</sub> Note4	11	Α
Drain peak current	I <sub>D (pulse)</sub> Note1	33	Α
Body-drain diode reverse drain current	I <sub>DR</sub>	11	Α
Body-drain diode reverse drain peak current	I <sub>DR (pulse)</sub> Note1	33	Α
Avalanche current	I <sub>AP</sub> Note3	4	Α
Avalanche energy	E <sub>AR</sub> Note3	0.87	mJ
Channel dissipation	Pch Note2	30	W
Channel to case thermal impedance	θch-c	4.17	°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%

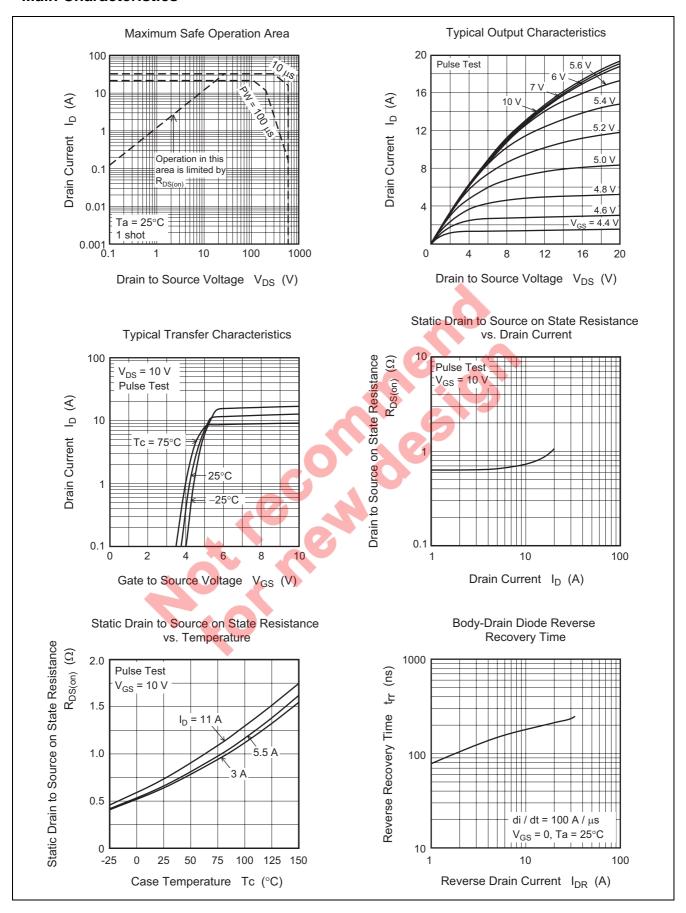
- 2. Value at Tc = 25°C
- 3. STch =  $25^{\circ}$ C, Tch  $\leq 150^{\circ}$ C
- 4. Limited by maximum safe operation area

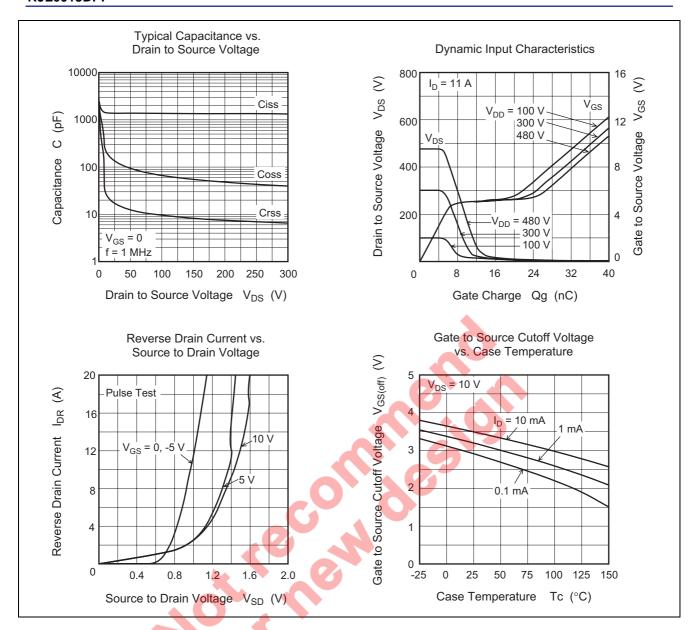
# **Electrical Characteristics**

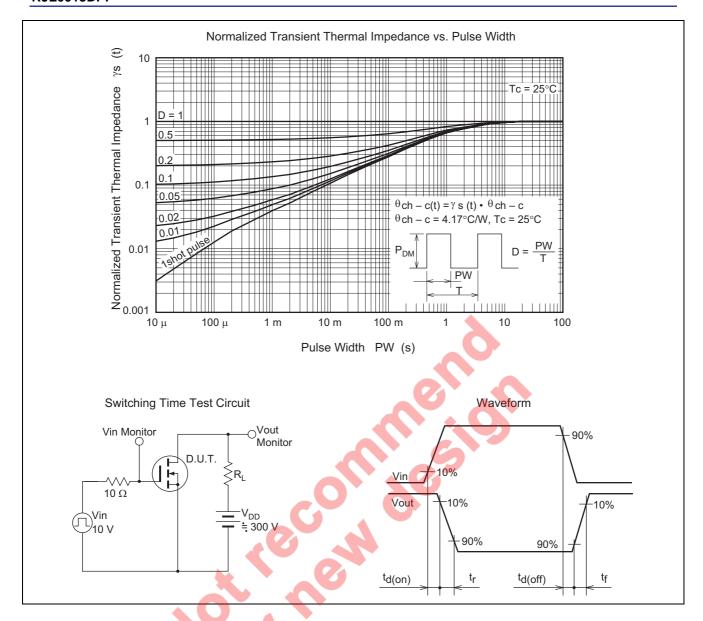
 $(Ta = 25^{\circ}C)$ 

Notes: 5. Pulse test

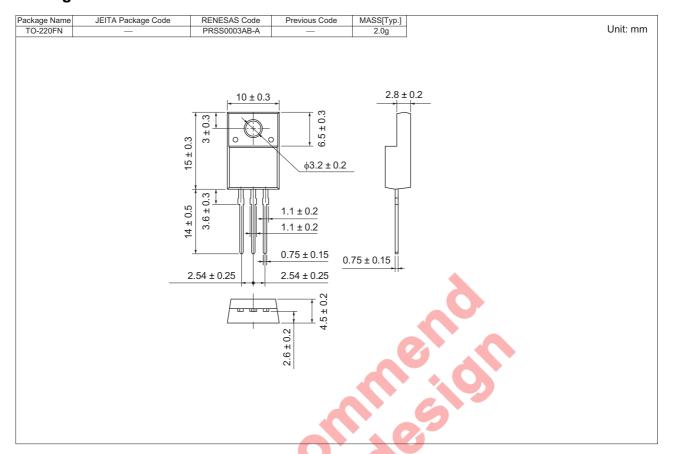
# **Main Characteristics**







# **Package Dimensions**



# **Ordering Information**

Part No.	Quantity	1		Shipping Container
RJL6013DPP-00-T2	1050 pcs		Box	(Tube)

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

- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

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## Renesas Technology America, Inc

450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd.
Unit 204, 205, AZIACenter, No.1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7858/7898

Renesas Technology Hong Kong Ltd.
7th Floor, North Tower, World Finance Centre, Harbour City, Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2377-3473

**Renesas Technology Taiwan Co., Ltd.** 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 3518-3399

### Renesas Technology Singapore Pte. Ltd.

1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510