

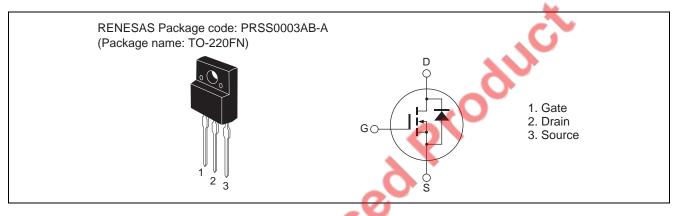
RJK6012DPP

Silicon N Channel MOS FET High Speed Power Switching Datasheet

Features

- Low on-resistance
- $R_{DS(on)} = 0.77 \ \Omega \text{ typ.}$ (at $I_D = 5 \text{ A}$, $V_{GS} = 10 \text{ V}$, $Ta = 25^{\circ}\text{C}$)
- Low leakage current
- High speed switching

Outline



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	600	V
Gate to source voltage	V _{GSS}	±30	V
Drain current	ID Note4	10	А
Drain peak current	Note1 I _{D (pulse)}	20	A
Body-drain diode reverse drain current	I _{DR}	10	А
Body-drain diode reverse drain peak current	I _{DR (pulse)} Note1	20	А
Avalanche current	I _{AP} ^{Note3}	3	А
Avalanche energy	E _{AR} ^{Note3}	0.49	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

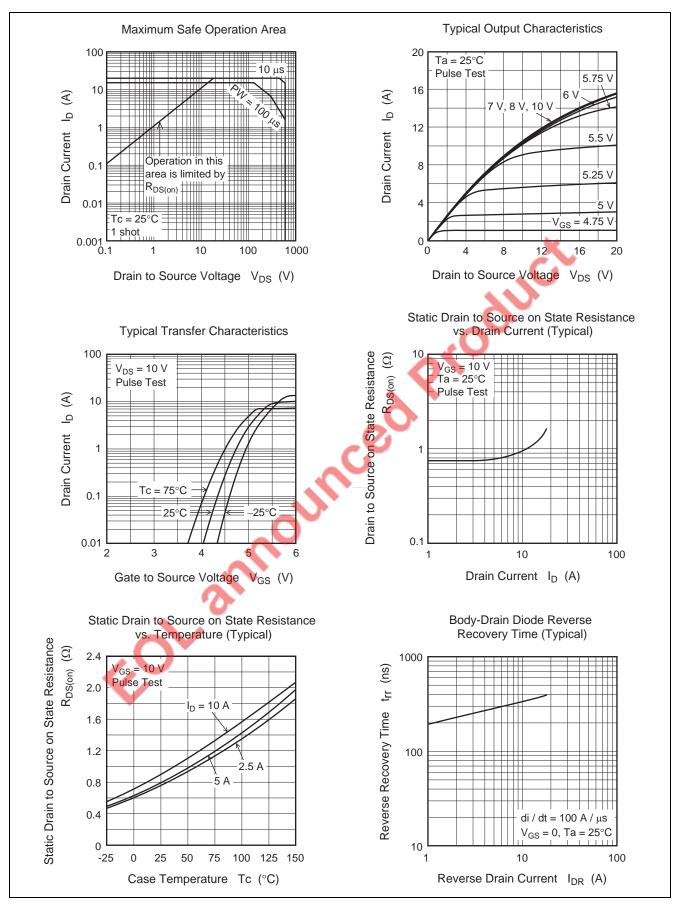
- 3. STch = 25° C, Tch $\leq 150^{\circ}$ C
- 4. Limited by maximum safe operation area



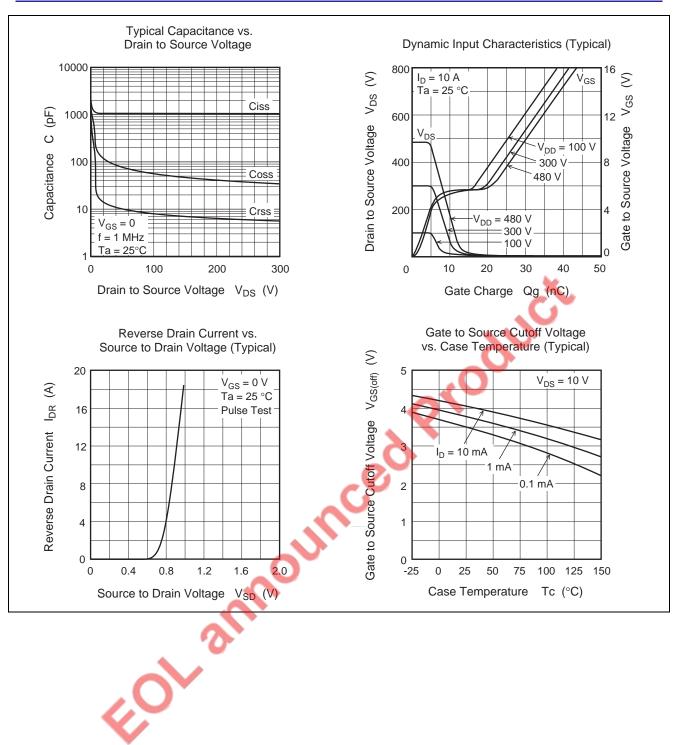
Electrical Characteristics



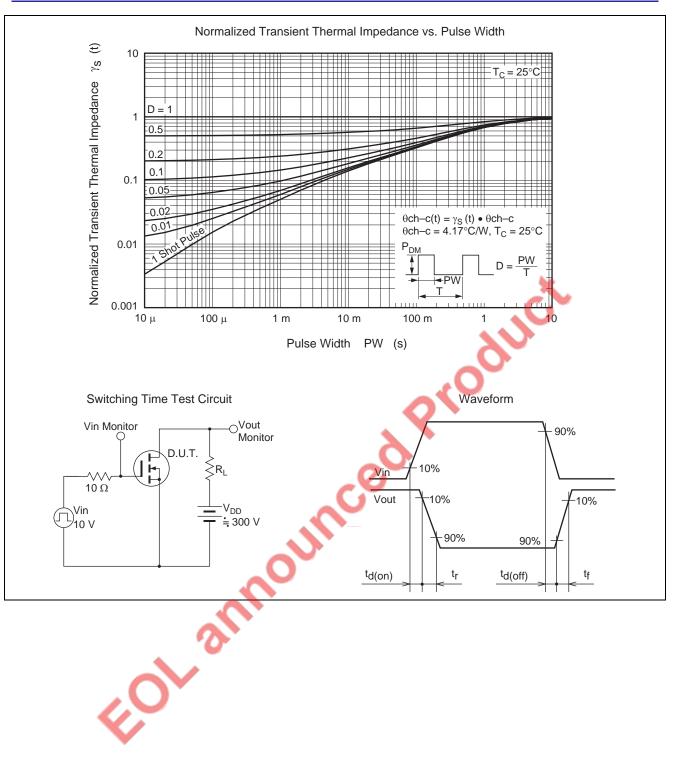
Main Characteristics





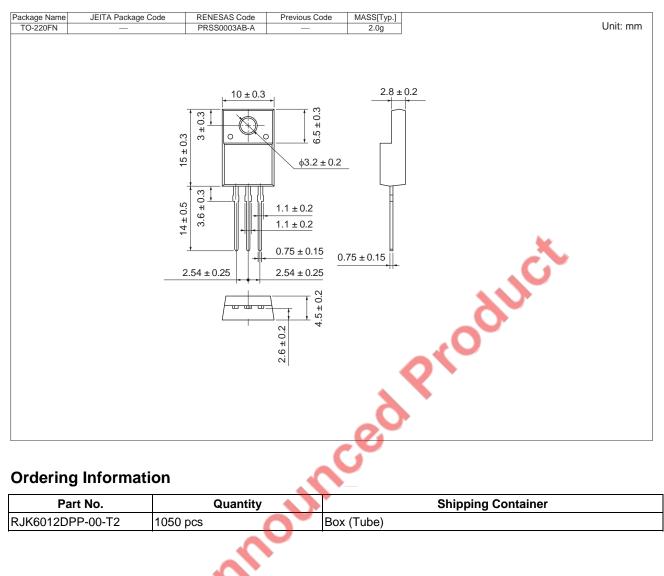








Package Dimensions



Ordering Information

Part No.	Quantity		Shipping Container	
RJK6012DPP-00-T2	1050 pcs 🧹	Box (Tube)		
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