

RJK03M7DPA

Silicon N Channel Power MOS FET Power Switching

R07DS0773EJ0110 Rev.1.10 Feb 22, 2012

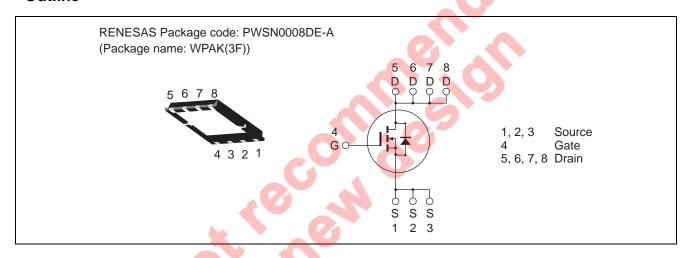
Features

- High speed switching
- Capable of 4.5 V gate drive
- Low drive current
- High density mounting
- Low on-resistance

 $R_{DS(on)}\!=8.0~\text{m}\Omega$ typ. (at $V_{GS}\!=10~V)$

- Pb-free
- Halogen-free

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Drain to source voltage	V_{DSS}	30	V
Gate to source voltage	V_{GSS}	±20	V
Drain current	I _D	30	A
Drain peak current	I _{D(pulse)} Note1	120	A
Body-drain diode reverse drain current	I _{DR}	30	A
Avalanche current	I _{AP} Note 2	8	A
Avalanche energy	E _{AS} Note 2	6.4	mJ
Channel dissipation	Pch Note3	25	W
Channel to case thermal impedance	θch-c Note3	5.0	°C/W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

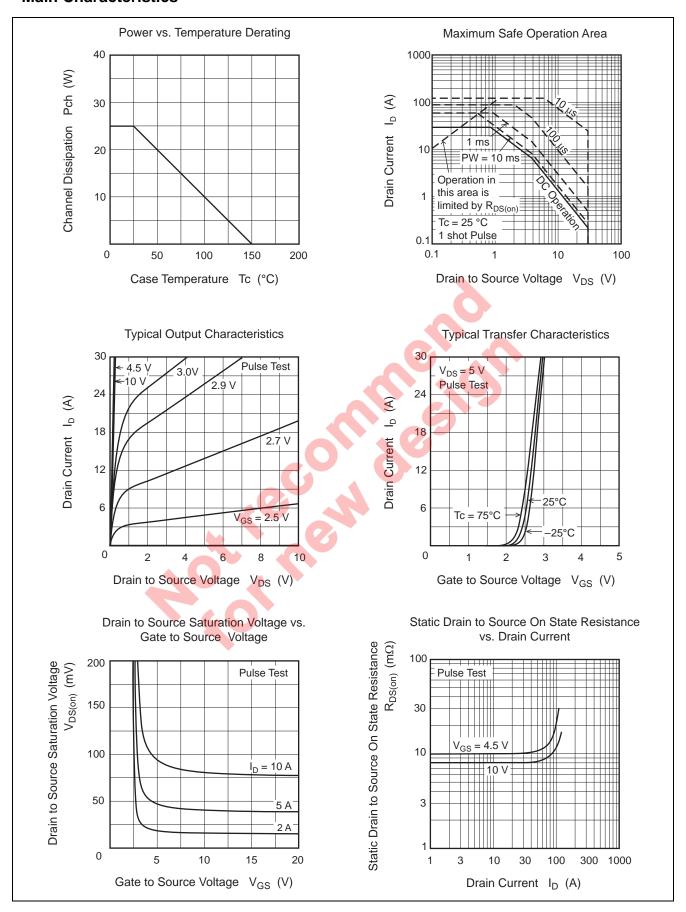
- 2. Value at Tch = 25°C, Rg \geq 50 Ω
- 3. Tc = 25°C

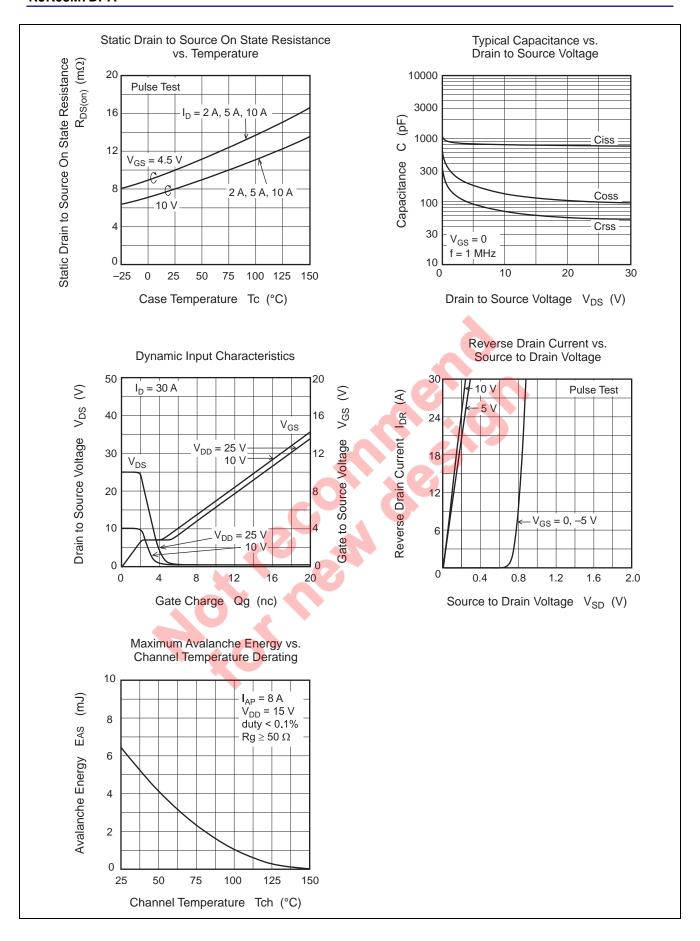
Electrical Characteristics

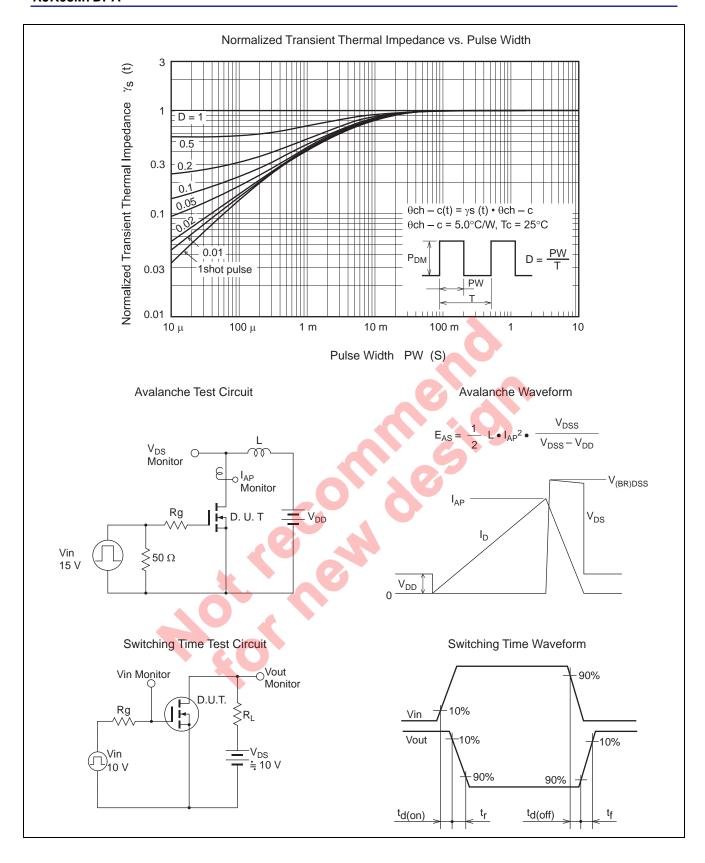
 $(Ta = 25^{\circ}C)$

Notes: 4. Pulse test

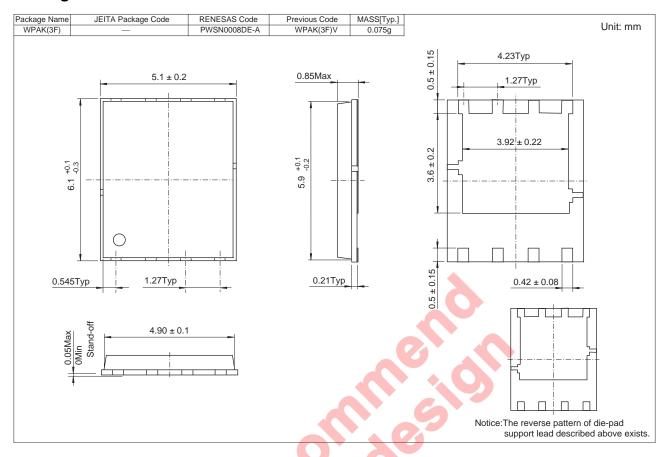
Main Characteristics







Package Dimensions



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJK03M7DPA-00-J5A	3000 pcs	Taping

Note: The symbol of 2nd "-" is occasionally presented as "#".

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