

# **RJK03N3DPA**

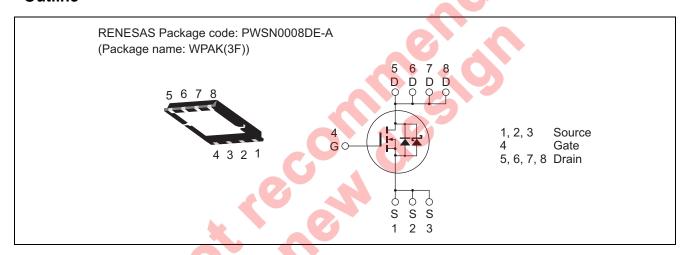
30V, 35A, 4.7m $\Omega$ max. Built in SBD N Channel Power MOS FET High Speed Power Switching

R07DS0784EJ0200 Rev.2.00 Feb 12, 2013

#### **Features**

- High speed switching
- Capable of 4.5 V gate drive
- Low drive current
- High density mounting
- Low on-resistance
- 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	$V_{GSS}$	±12	V
Drain current	I <sub>D</sub>	35	A
Drain peak current	I <sub>D(pulse)</sub> Note1	140	A
Body-drain diode reverse drain current	I <sub>DR</sub>	35	A
Avalanche current	I <sub>AP</sub> Note 2	13	A
Avalanche energy	E <sub>AS</sub> Note 2	16.9	mJ
Channel dissipation	Pch Note3	35	W
Channel to case thermal impedance	θch-c Note3	3.57	°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%

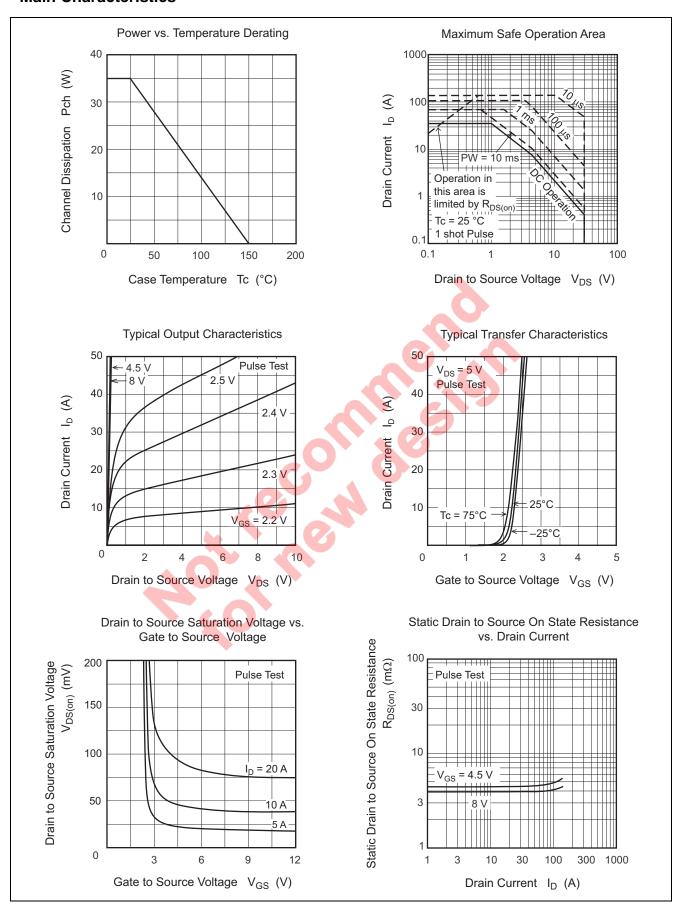
- 2. Value at Tch = 25°C, Rg  $\geq$  50  $\Omega$
- 3. Tc = 25°C

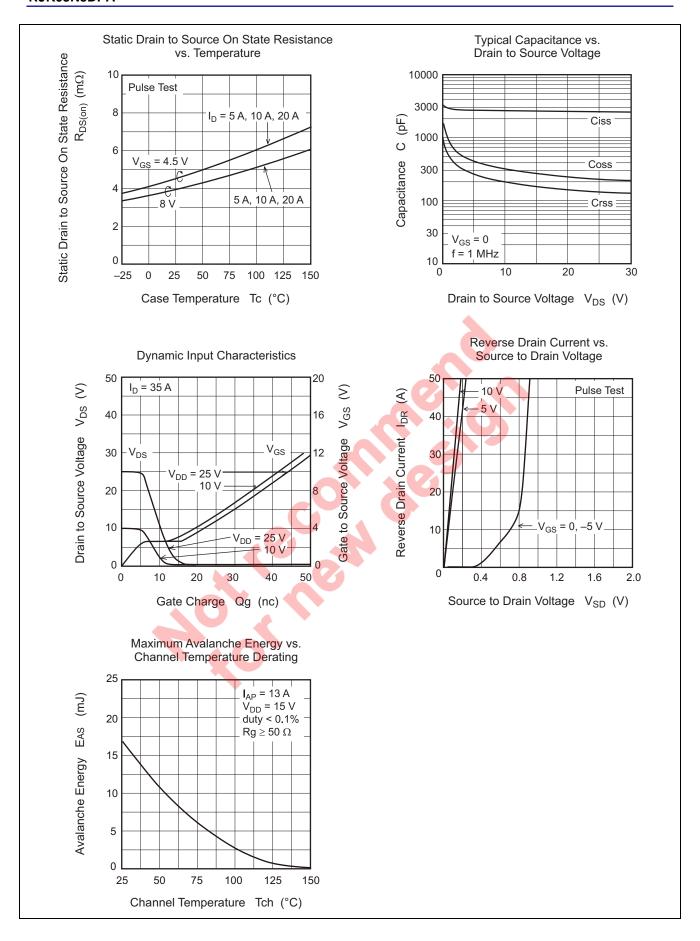
## **Electrical Characteristics**

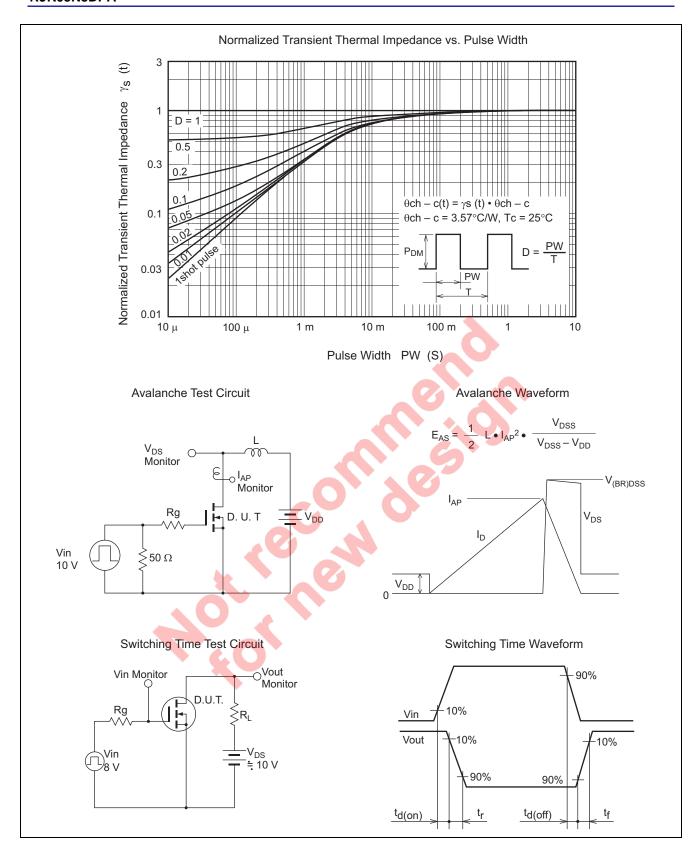
 $(Ta = 25^{\circ}C)$ 

Notes: 4. Pulse test

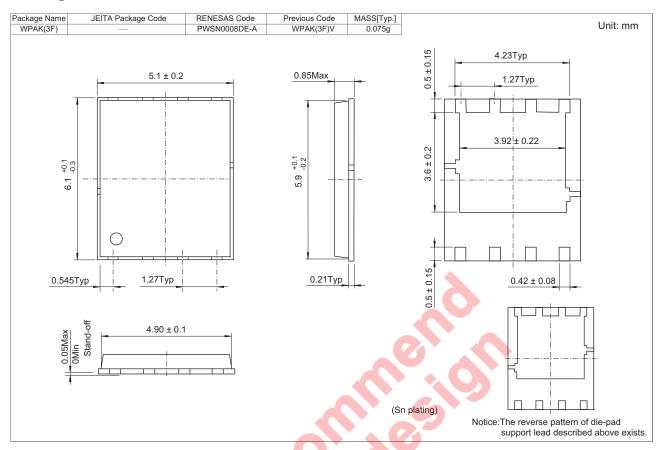
## **Main Characteristics**







## **Package Dimensions**



# **Ordering Information**

Orderable Part Number	Quantity	Shipping Container
RJK03N3DPA-00-J5A	3000 pcs	Taping

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

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