

RJK0243DNS

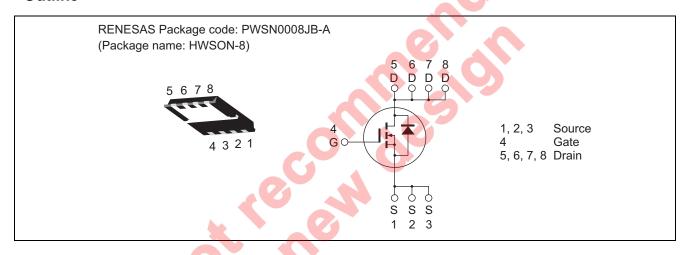
25V, 25A, 9.6mΩmax. N Channel Power MOS FET High Speed Power Switching

R07DS1074EJ0110 Rev1.10 Mar 28, 2013

Features

- Very 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}	25	V
Gate to source voltage	V_{GSS}	+10,-8	V
Drain current	I _D	25	А
Drain peak current	I _{D(pulse)} Note1	100	А
Body-drain diode reverse drain current	I _{DR}	25	А
Avalanche current	I _{AP} Note 2	17	А
Avalanche energy	E _{AS} Note 2	36	mJ
Channel dissipation	Pch Note3	20	W
Channel to case thermal impedance	θch-c Note3	6.25	°C/W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

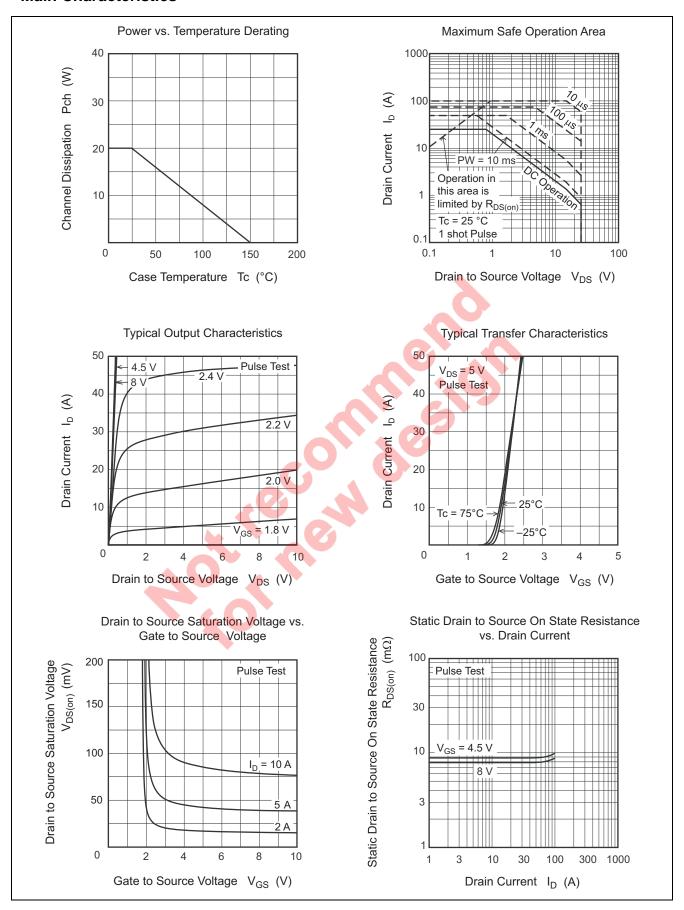
- 2. Value at Tch = 25°C, Rg \geq 50 Ω
- 3. Tc = 25°C

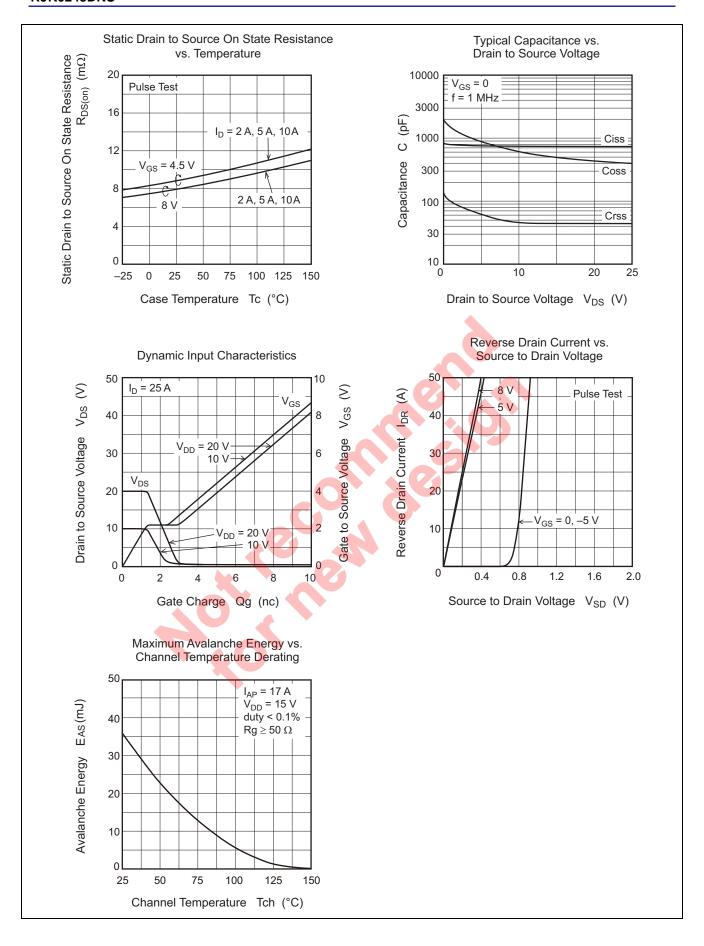
Electrical Characteristics

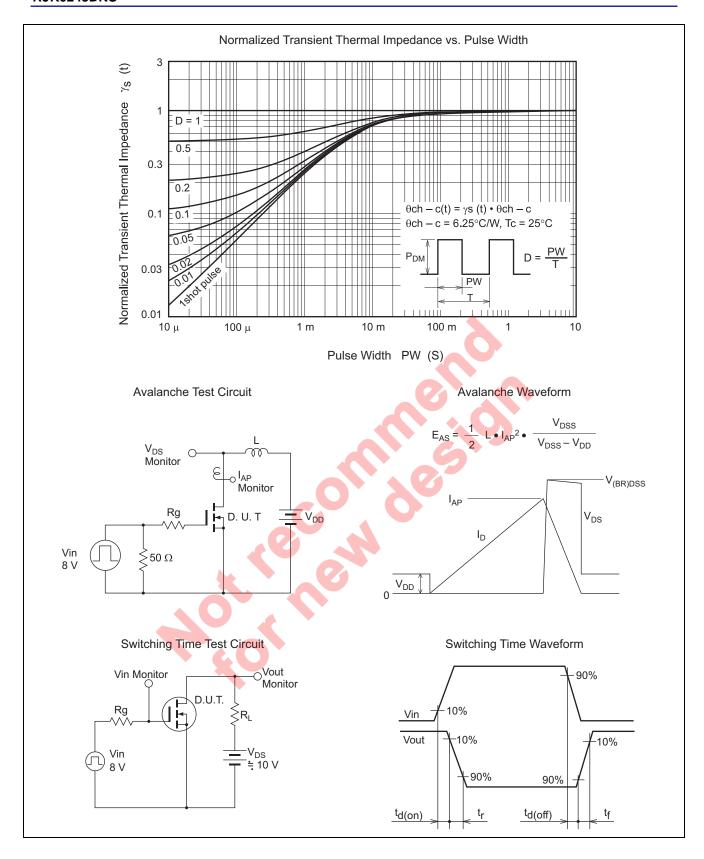
 $(Ta = 25^{\circ}C)$

Notes: 4. Pulse test

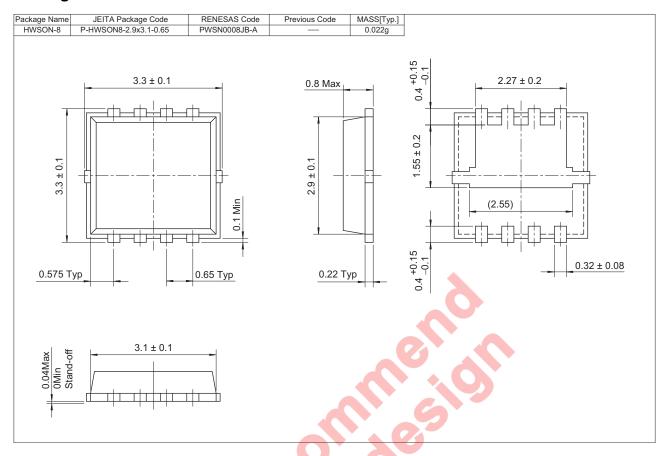
Main Characteristics







Package Dimensions



Ordering Information

Orderable Part Number		Quantity	Shipping Container
RJK0243DNS-00-J5	5000 pcs		Taping

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

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