

RJK03M8DNS

Silicon N Channel Power MOS FET Power Switching

R07DS0774EJ0110 Rev.1.10 May 29, 2012

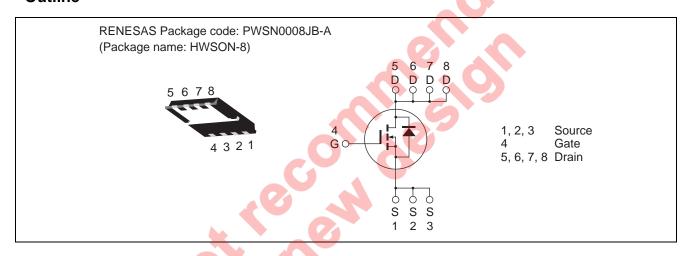
Features

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

 $R_{DS(on)}$ = 4.3 m Ω 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	13	A	
Avalanche energy	E _{AS} Note 2	16.9	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%

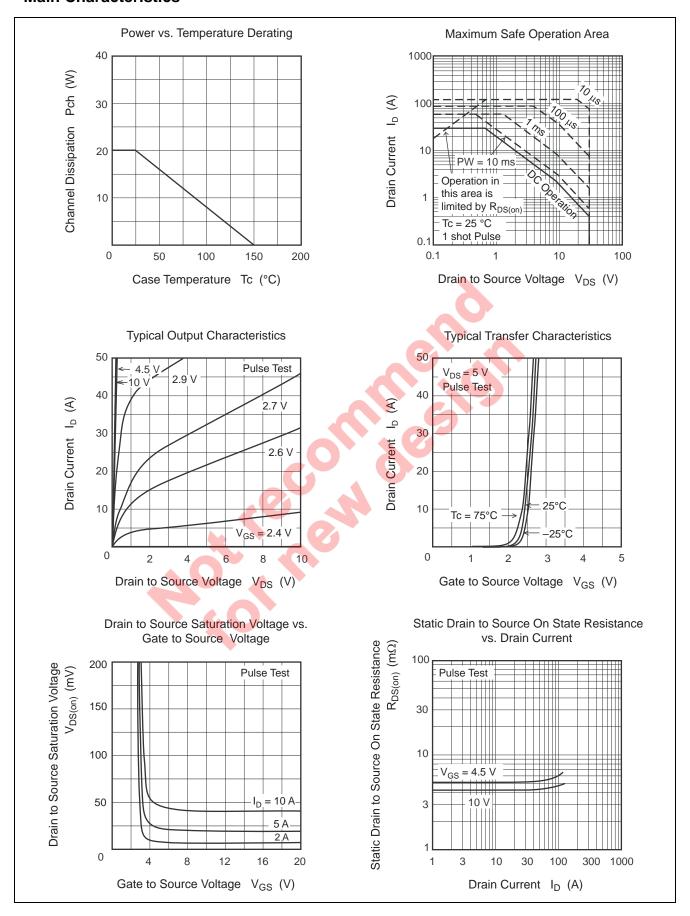
- 2. Value at Tch = 25°C, Rg \geq 50 Ω
- 3. Tc = 25°C

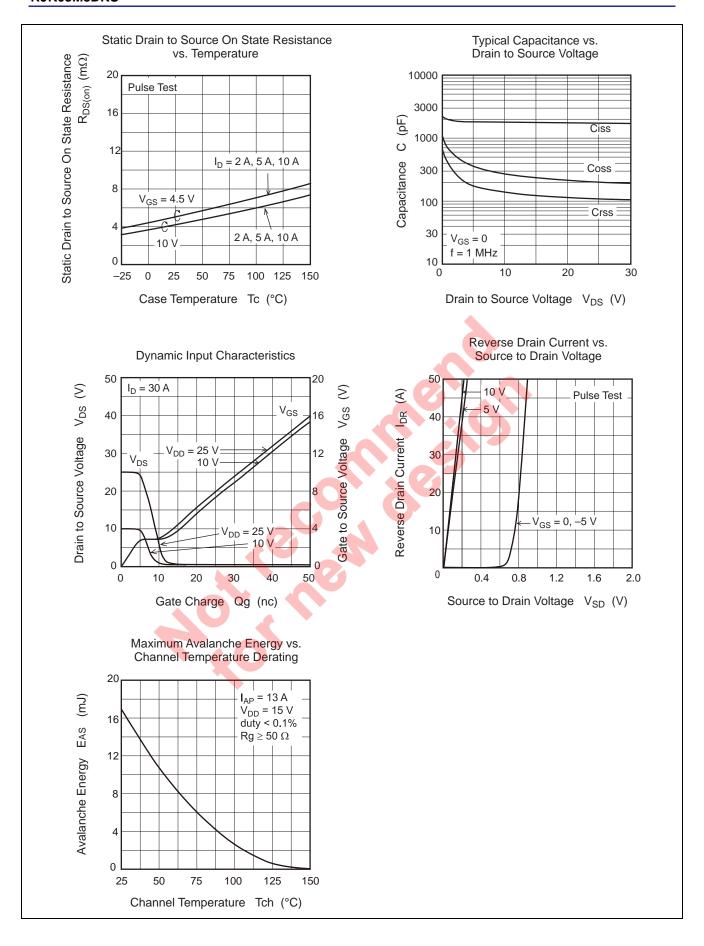
Electrical Characteristics

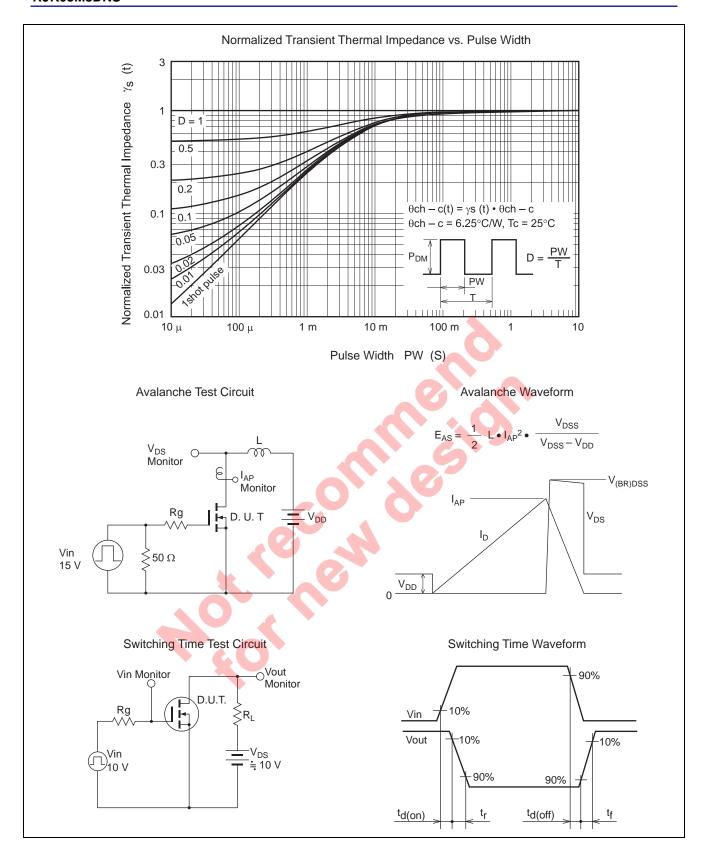
 $(Ta = 25^{\circ}C)$

Notes: 4. Pulse test

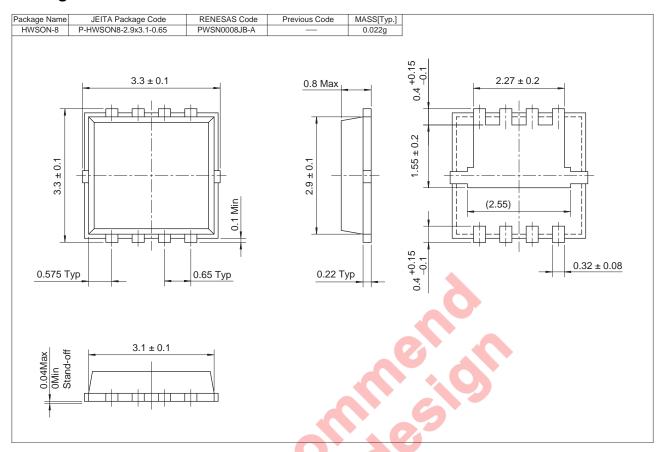
Main Characteristics







Package Dimensions



Ordering Information

Orderable Part Number	Quantity		Shipping Container
RJK03M8DNS-00-J5	5000 pcs	Taping	

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

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