# Old Company Name in Catalogs and Other Documents

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April 1<sup>st</sup>, 2010 **Renesas Electronics Corporation** 

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# HAT2105T

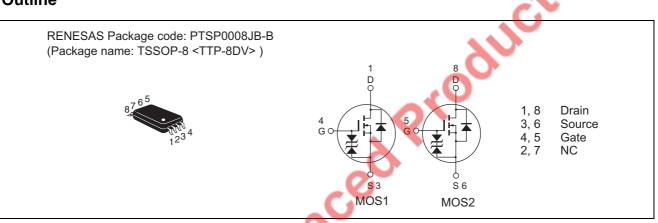
Silicon N Channel MOS FET High Speed Power Switching

> REJ03G0384-0200 Rev.2.00 Aug 06, 2007

# Features

- Low on-resistance
- Capable of 4 V gate drive
- High density mounting

# Outline



# Absolute Maximum Ratings

		$(Ta = 25^{\circ}C)$	
Item	Symbol	Ratings	Unit
Drain to source voltage	V <sub>DSS</sub>	200	V
Gate to source voltage	V <sub>GSS</sub>	±15	V
Drain current	Ι <sub>D</sub>	0.5	A
Drain peak current	I <sub>D</sub> (pulse) <sup>Note1</sup>	2	A
Body-drain diode reverse drain current	I <sub>DR</sub>	0.5	A
Channel dissipation	Pch <sup>Note 2</sup>	1	W
	Pch <sup>Note 3</sup>	1.5	W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

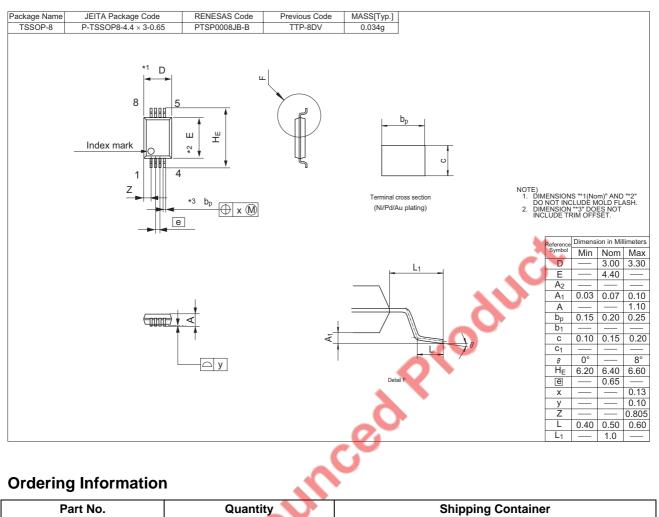
2. 1 Drive operation ; When using the glass epoxy board (FR4 40 x 40 x 1.6 mm), PW  $\leq$  10 s

3. 2 Drive operation ; When using the glass epoxy board (FR4 40 x 40 x 1.6 mm), PW  $\leq$  10 s

# **Electrical Characteristics**

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# **Package Dimensions**



## **Ordering Information**

Quantity	Shipping Container		
pcs	Taping		
	Quantity pcs		

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