To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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RENESAS TECHNICAL UPDATE

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Renesas Technology Corp.

Product Category	MPU&MCU		Document No.	TN-H8*-A346A/E	Rev.	1.00
Title	About power supply voltage startup conditional Standard addition.		Information Category	Technical Notification		
Applicable Product	H8S/2319C F-ZTAT (HD64F2319C)	Lot No.	Reference Document	H8S/2319 Group, H8S/2318 Group Hardware Manual (REJ09B0089-0600 Rev.6.00)		
		All				

The Power supply voltage startup condition is added to DC Characteristics of the hardware manual of the H8S/2319 Group, H8S/2318 Group.

Please refer to the following for details.

1. Applicable product

The H8S/2319C F-ZTAT products of the H8S/2319 Group.

(Except the H8S/2319C F-ZTAT product of each of these groups in not effected).

2. The content below is added to the user manuals shown below in the indicated sections

20.3 Electrical Characteristics of F-ZTAT Version (H8S/2319C F-ZTAT)

20.3.2 DC Characteristics

Item	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V_{CC} start voltage *5	$V_{CC\,start}$	——	——	0.4	V	
V_{CC} rise slope *5	SV_{CC}	——	——	10	ms/V	

Note: 5.   Applies when $\overline{RES}$ pin is low level at power-on.

3. Modification in the RAM standby voltage

20.3 Electrical Characteristics of F-ZTAT Version (H8S/2319C F-ZTAT)

20.3.2 DC Characteristics

[Before change]

Item	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
RAM standby voltage	V_{RAM}	2.0	——	——	V	

[After change]

Item	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
RAM standby voltage	V_{RAM}	2.5	——	——	V	

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