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)

Send any inquiries to http://www.renesas.com/inquiry.

RENESAS TECHNICAL UPDATE

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan RenesasTechn ology Corp.

Product Category	MPU&MCU			Do	ocument No.	TN-H8	3*-A312A/E	Rev.	1.00
Title	Spec change in electrical chan for H8SX/1582	racteristics			ormation ategory	Techni	cal Notification		
			Lot No	o.					
Applicable Product	H8SX/1582		All lots		eference ocument		1582 Hardware 9B0199-0100Z		0)
Thank you for	your consistent patronage of l	Renesas semic	onductor	product	S.				
	to inform you of the changes f ardware Manual, Rev.1.00 (RE	-		n and cu	rrent consu	Imption i	n Electrical Cha	aracteristi	cs in th
-	ange] $T_a = -20^{\circ}C$ to +75 $T_a = -40^{\circ}C$ to +85°	°C (wide-rang		-)				
[After chang	ge] $T_a = -20^{\circ}C \text{ to } +85^{\circ}C$,							
	nge] DC Characteristics (2)								
Conditions:									
	$V_{SS} = AV_{SS} = 0 V^{*1}, T_a$			-	fications),				
	T _a = -40°C to +85°C (Item	wide-range spe Symbol	ecificatior Min.	ns) Typ.	Max.	Unit	Test Conditions		
Current	Normal operation	lcc*4		62	95	mA	f = 48 MHz		
consumptio	on* ² Sleep mode			52	85	_	-		
	Standby mode* ³			30	50	uA	$T_a \leq 50^\circ C$		
				_	200	_	50°С < Та		
	All-module-clock- stop mode* ⁵			42	55	mA			
Notes: 4	Icc depends on Vccan	d f as follows:							
	l _{cc} max = 12 (mA) + 0 l _{cc} max = 12 (mA) + 0					ation)			
	I _{CC} max = 12 (mA) + 0	.28 (MA/(MHZ)	× v)) × v	∞ ×1 (SI6	eep mode)				



nditions:	V_{CC} = 4.5 V to 5.5 V, AV	$v_{\rm CC}0 = 4.5 \text{ V to}$	5.5 V, A	V _{CC} 1 = 4.	5 V to 5.5	V,	
	$V_{SS} = AV_{SS} = 0 V^{*1}, T_a =$	= –20°C to +85	°С,				
	ltem	Symbol	Min.	Тур.	Max.	Unit	Test Conditions
Current	Normal operation	lcc*4		95	107	mA	f = 48 MHz
onsumption*2	Sleep mode		_	75	70	_	
	Standby mode* ³		_	50	300	uA	$T_a{\leq}50^\circ C$
	. <u></u>		_		1	mA	50°C < T _a
	All-module-clock- stop mode* ⁵ I _{CC} depends on V _{CC} and		—	42	55	mA	
	l _{cc} max = 12 (mA) + 0. l _{cc} max = 12 (mA) + 0.:						

