

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>)

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
Renesas Technology Corp.

Product Category	MPU&MCU	Document No.	TN-740-A108A/E	Rev.	1.00
Title	Additional Information to 7542 Group Datasheet		Information Category	Technical Notification	
Applicable Product	7542 Group Flash memory version	Lot No.	Reference Document	7542 Group Datasheet	
		All lots			

We are going to add the Electrical characteristics of the 7542 Group Flash Memory to the 7542 Group Datasheet.
When using the 7542 Group Datasheet, please note this information.

- Electrical Characteristics of 7542 Group Flash Memory

Table 1 Electrical Characteristics of 7542 Group Flash Memory

Symbol	Parameter	Measurement condition	Ratings			Unit
			Min.	Typ.	Max.	
-	Program/Erase endurance (Note 1)		100	-	-	times
-	Byte program time		-	50	400	μ s
-	Block erase time	2Kbyte-block	-	0.2	9	s
		8Kbyte-block	-	0.4	9	s
		16Kbyte-block	-	0.7	9	s
$t_{d(SR-ES)}$	Time delay from suspend request until erase suspend		-	-	8	ms
-	Erase suspend request interval		10	-	-	ms
-	Program, erase voltage		2.7	-	5.5	V
-	Read voltage		2.7	-	5.5	V
-	Program, erase temperature		0	-	60	$^{\circ}$ C
-	Data hold time	Ta=55 $^{\circ}$ C	20	-	-	Year

Notes 1: Definition of program and erase

The program and erase endurance shows an erase endurance for every block.

If the program and erase endurance is "n" times (n = 100), "n" times erase can be performed for every block.

For example, if performing 1-byte write to the distinct addresses on Block A of 2Kbyte block 2048 times and then erasing that block, program and erase endurance is counted as one time.

However, do not perform multiple programs to the same address for one time erase.(disable overwriting).

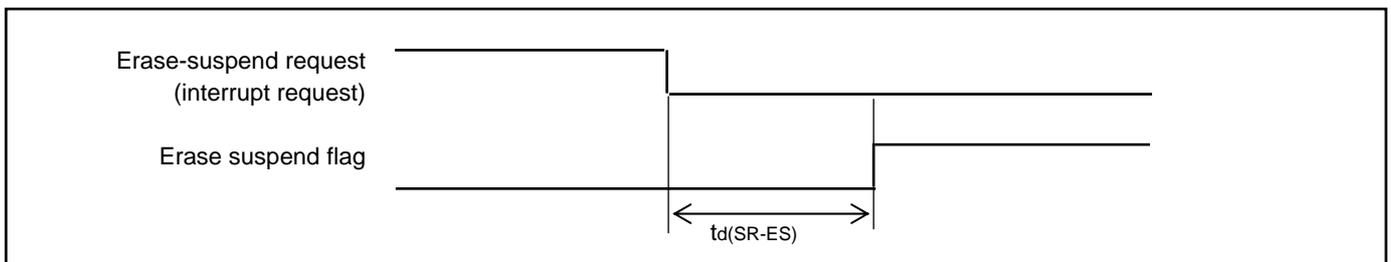


Figure 1 Time delay from suspend request until erase suspend