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Oki, Network Solutions for a Global Society

FEBLOTP66587F-03

OTP66587F-100
User's Manual

OTP ROM Writing Adapter for Microcontroller MSM66P587

-This manual contains important information necessary for the safe use of the OTP66587F-100.
It should be read before use.
- Please keep it in an easily accessible place, near the OTP66587F-100 at all times.

Issue Date: August 27, 2002

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1. The information contained herein can change without notice owing to product and/or technical improvements. Before using the product, please make sure that the information being referred to is up-to-date.

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CONTENTS

1. OVERVIEW 3

2. WRITING PROGRAM DATA 4

3. WRITING SECURITY FLAG 5

REVISION HISTORY 6

1. Overview

The OTP66587F-100 is a conversion adapter used to write program data to the ROM (OTP) contained in the MSM66P587 using a general PROM writer.

Data can be written into or read from the ROM (OTP) like an EPROM by inserting the OTP66587F-100 into the socket of a general PROM writer (Note1) before inserting the MSM66P587 into the socket of the OTP66587F-100. (See the figure 1)

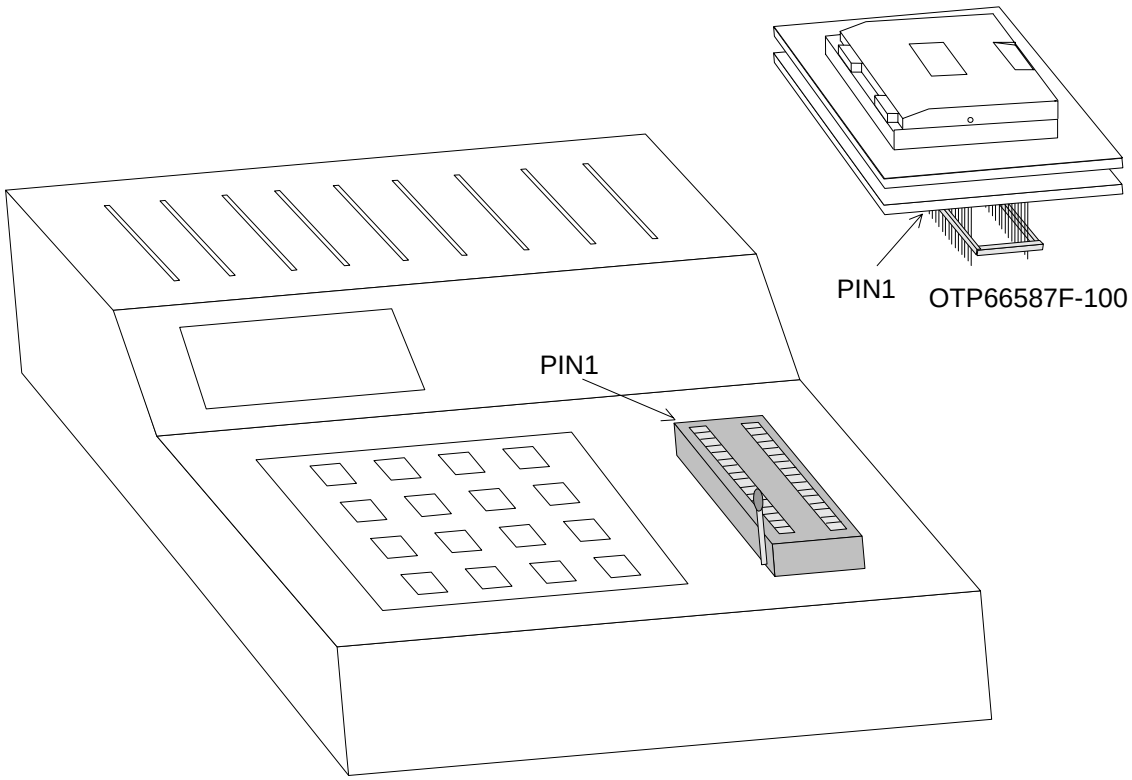

Figure 1. Mounting OTP66587F-100

Note1: Be sure to insert the OTP66587F-100 into the socket of the general PROM writer in the specified direction as shown in the figure 1 above. Otherwise, the MSM66P587, the OTP66587F-100 or the general PROM writer may be damaged.

2. WRITING PROGRAM DATA

Turn the SW1 of the OTP66587F-100 to “D”.

Make the pin 1 facing to the mark “▲” of the socket when inserting the MSM66P587 into the socket of the OTP66587F-100. (See the figure 2)

When writing program data (Note2), set the ROM type of the PROM writer to the intel fast writing mode (Vpp=12.5V, program pulse width: 1ms) for the 27C512 type PROM.

Specify the writing address range to 0000H-0FFFFH.

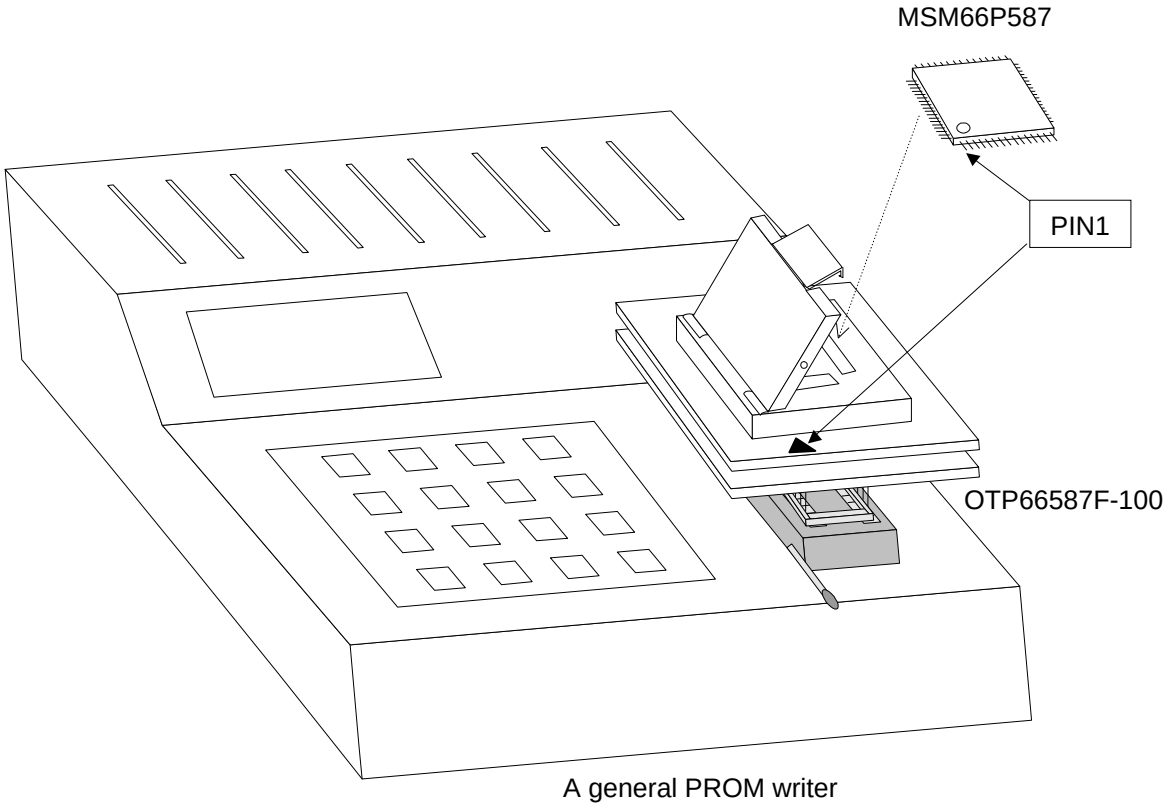

Figure 2. Mounting MSM66P587

Note2: The MSM66P587 dose not contain ID code. Don’t set up ID mode (product identification mode) when writing data using a general PROM writer. Otherwise, an error will occur.

3. WRITING SECURITY FLAG

The security flag is used to inhibit reading program data from the MSM66P587.

When writing a security flag, write “00” to the address location “0000” after setting the SW1 of the OTP66587F-100 to “S”.

Note that in this case, verification may be impossible and an error may occur in the PROM writer.

CAUTION

Set the SW1 of the OTP66587F-100 to “D” when writing program data.

It is impossible to verify the security flag after writing “00” to the security flag.

Therefore, when setting a security flag, first write program data after setting the SW1 to “D”. Then write “00” after setting the SW1 to “S”. It is impossible to overwrite the existing program data if a new program is written when the SW1 is set to “S”.

Write program data to the locations 0000H-0FFFFH using a PROM writer that can specify the writing address.

- Recommended operating conditions (without condensation and vibration shock)

Parameter	Condition	Rated Value		Unit
		Min	Max	
Power supply voltage	---	4.75	5.25	V
Program power supply voltage	Read operation	4.75	5.25	V
	Programming operation	12.00	13.00	V
Operating temperature	---	5	40	C
Operating humidity	---	30	80	%

Revision History

Document No. (Revision)	Date	Page		Description
		Previous Edition	Current Edition	
FEBLOTP66587-02 (Rev 2.00)	Apr, 1997	-	-	Revision 2.00 released
FEBLOTP66587-03 (Rev 3.00)	Aug.27, 2002	1-3	1-6	Manual format was changed. Added Contents and Revision History.