2M FLASH COMPATIBILITY APPLICATION NOTE

GENERAL DESCRIPTION

Due to Winbond 2 Mega Flash supply change, W29C020C part has been replaced by W49F002 part. In this change, customers should notice the following engineering issues.

RESET Pin Connection Issue

In W49F002 pin configuration, pin 1 is defined as RESET pin; while for W29C020C, the pin 1 is an NC pin (please refer to both two datasheets for details). When using these two parts in exchange, the following issues should be noticed.

a.   When system's reset signal connects to part's RESET pin, there is no incompatible issue. The part will function normally.

b.   When system's 5V power supply connects to part's RESET pin, there is no incompatible issue. The part will function normally.

c.   When part's RESET pin remains as no connection (NC), there is no incompatible issue. The part will function normally.

d.   If system's 12V power supply connects to part's RESET pin, this will inhibit Boot Block Lockout function. However, from IC design viewpoint, the part's Read/Write function will work normally. Since Winbond will not provide any test in this aspect, if switching power design imperfection causes the surge voltage over 14V when PC power on. Part will be damaged. In this case, we still suggest customers use previous three solutions to avoid any risk.

BIOS Vendor Support

BIOS vendors such as AMI, AWARD and Phoenix have already provided BIOS support on this part. Customers can contact any of them, if necessary.

Programmer Driver Support

Most of popular programmers can provide the services of updating this part, except these phased out programmer models. If customers cannot update this part on programmers, please try to use AMD 29F002 or Atmel 49F002 programming driver for programming this part.

VERSION HISTORY

VERSION	DATE	PAGE	DESCRIPTION
A1	Jun. 2000	-	Initial Issue