Renesas Electronics America Inc - UPD78F0441GK-GAJ-AX Datasheet

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What is "Embedded - Microcontrollers"?

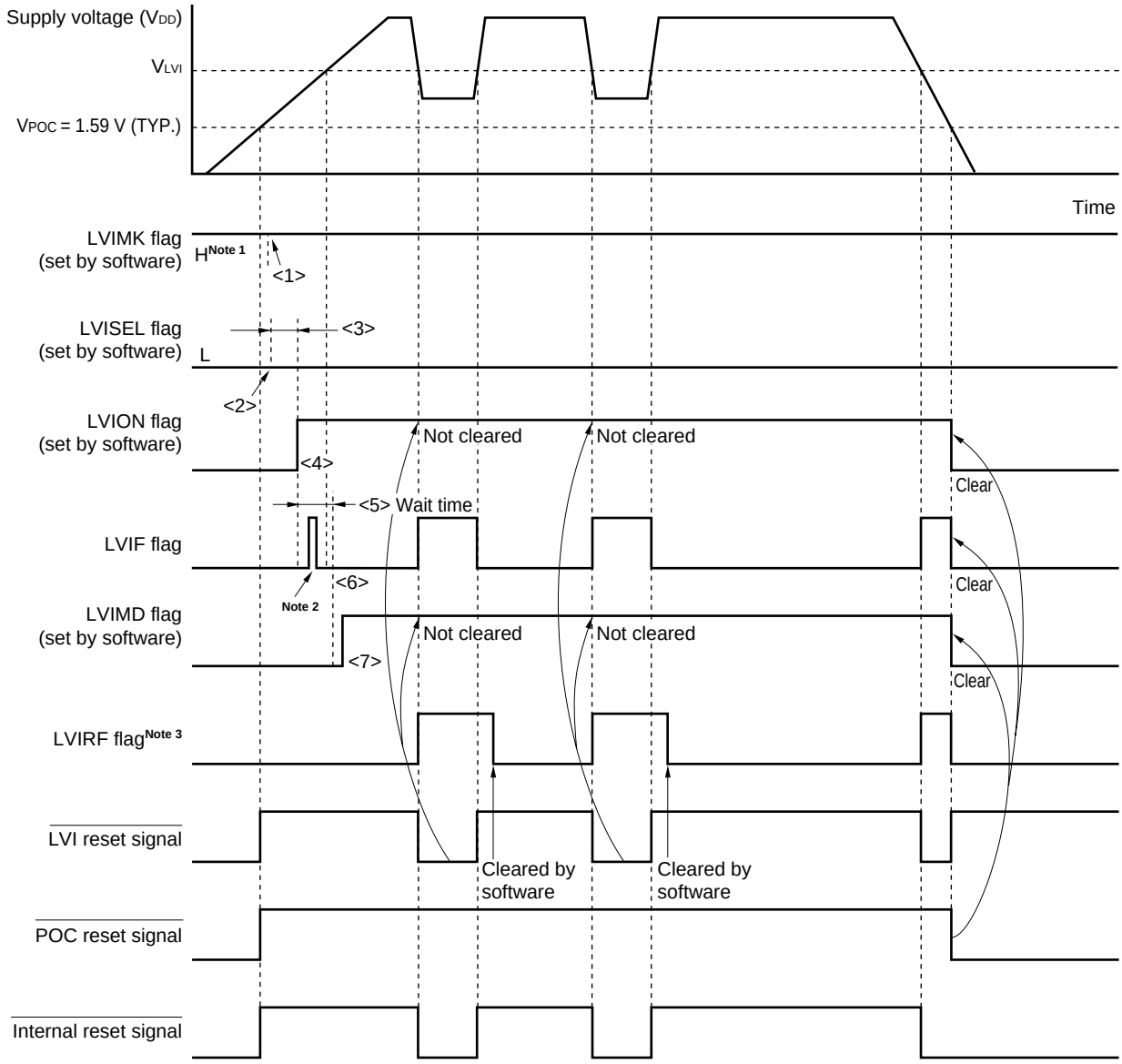
"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "Embedded - Microcontrollers"

Details	
Product Status	Active
Core Processor	78K/0
Core Size	8-Bit
Speed	10MHz
Connectivity	3-Wire SIO, LINbus, UART/USART
Peripherals	LCD, LVD, POR, PWM, WDT
Number of I/O	46
Program Memory Size	16KB (16K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	768 x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	64-LQFP
Supplier Device Package	-
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/upd78f0441gk-gaj-ax

Figure 25-5. Timing of Low-Voltage Detector Internal Reset Signal Generation (Detects Level of Supply Voltage (V_{DD})) (1/2)

(1) In 1.59 V POC mode (option byte: POCMODE = 0)



Notes 1. The LVIMK flag is set to “1” by reset signal generation.

2. The LVIF flag may be set (1).

3. LVIRF is bit 0 of the reset control flag register (RESF). For details of RESF, see **CHAPTER 23 RESET FUNCTION**.

Remark <1> to <7> in Figure 25-5 above correspond to <1> to <7> in the description of “When starting operation” in **25.4.1 (1) When detecting level of supply voltage (V_{DD})**.