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January 2012

# FT10001 Reset Timer with Fixed Delay and Reset Pulse

#### **Features**

- Fixed Reset Delay: 10 Seconds
- One Input Reset Pin
- Open-Drain Output Pin with Fixed 530ms Pulse
- 1.8V to 5.0V Operation (T<sub>A</sub>=-40°C to +85°C)
- 1.7V to 5.0V Operation (T<sub>A</sub>=-25°C to +85°C)
- 1.65V to 5.00V Operation ( $T_A$ =0°C to +85°C)
- <1µA I<sub>CCQ</sub> Consumption
- Zero-Second Test-Mode Enable
- Integrated Pull-Up Resistor on /SRO

## **Applications**

- Cell Phones
- Portable Media Players
- Tablets
- Mobile Devices
- Consumer Medical

## Description

The FT10001 is a timer for resetting a mobile device where long reset times are needed. The long delay helps avoid unintended resets caused by accidental key presses. It has a fixed delay of 10 ±20% seconds. The DSR pin enables Test Mode operation by immediately forcing /RST1 LOW for factory testing.

The FT10001 has one input for single-button resetting capability. The device has a single open-drain output with 0.5mA pull-down drive.

FT10001 draws minimal  $I_{CC}$  current when inactive and functions over a power supply range of 1.65V to 5.00V.

## **Ordering Information**

Part Number	Operating Temperature Range	Package	Packing Method	
FT10001L6X	-40°C to +85°C	6-Lead, MicroPak™ 1.0 x 1.45mm, JEDEC MO-252	5000 Units on Tape and Reel	
FT10001FHX	-40°C to +85°C	6-Lead, MicroPak2™ 1.0 x 1.0mm Body, .35mm Pitch	5000 Units on Tape and Reel	

## **Block Diagram**

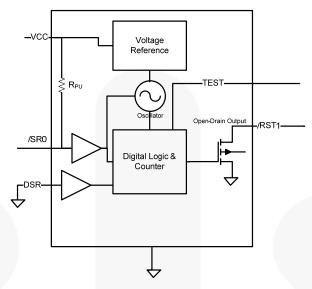


Figure 1. Block Diagram

## **Pin Configuration**

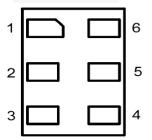


Figure 2. Pad Assignments (Top-Through View)

## **Pin Definitions**

Pin#	Name	Description		
FIII #	Name	Normal Operation	Zero-Second Factory-Test Mode	
1	/RST1	Open-drain output, active LOW	Open-drain output, active LOW	
2	GND	GND	GND	
3	/SR0	Reset input with integrated pull-up, active LOW	Reset input with integrated pull-up, active LOW	
4	VCC	Power supply	Power supply	
5	DSR	Delay selection input; tie to GND during normal operation (1)	Delay selection input. Pull HIGH to enable Zerosecond delay for factory test.	
6	TEST	Used for device testing; tie to GND during normal operation.	Used for device testing; tie to GND during normal operation.	

#### Note:

1. This pin must always be tied to either GND or VCC. It must not float.

## **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Condition	Min.	Max.	Unit
V <sub>CC</sub>	Supply Voltage		-0.5	7.0	V
V <sub>IN</sub>	DC Input Voltage	/SR0, DSR	-0.5	7.0	V
V <sub>OUT</sub>	Output Voltage <sup>(2)</sup>	/RST1	-0.5	7.0	V
I <sub>IK</sub>	DC Input Diode Current	V <sub>IN</sub> < 0V		-50	mA
I <sub>OK</sub>	DC Output Diode Current	V <sub>OUT</sub> < 0V		-50	mA
I <sub>OL</sub>	DC Output Sink Current			+50	mA
I <sub>CC</sub>	DC V <sub>CC</sub> or Ground Current per Sur	pply Pin		±100	mA
T <sub>STG</sub>	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under Bias			+150	°C
TL	Junction Lead Temperature, Soldering 10 Seconds			+260	°C
$P_D$	Power Dissipation			5	mW
ECD	Floatroatatia Diagharga Canability	Human Body Model, JESD22-A114		4	147
ESD	Electrostatic Discharge Capability	Charged Device Model, JESD22-C101		2	kV

#### Note:

2. All output current Absolute Maximum Ratings must be observed.

## **Recommended Operating Conditions**

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to Absolute Maximum Ratings.

Symbol	Parameter	Condition	Min.	Max.	Unit
\ \		-40°C to +85°C	1.8	5.0	
V <sub>CC</sub>	Supply Voltage	-25°C to +85°C	1.7	5.0	V
		0°C to +85°C	1.65	5.00	
t <sub>RFC</sub>	V <sub>CC</sub> Recovery Time After Power Down	V <sub>CC</sub> =0V After Power Down, Rising to 0.5V	5		ms
V <sub>IN</sub>	Input Voltage	/SR0	0	5	V
V <sub>OUT</sub>	Output Voltage	/RST1	0	5	V
l <sub>OL</sub>	DC Output Sink Current	/RST1, V <sub>CC</sub> =2.0V to 5.0V		+0.5	mA
T <sub>A</sub>	Free-Air Operating Temperature		-40	+85	°C
$\Theta_{JA}$	Thermal Resistance			350	°C/W

## **DC Electrical Characteristics**

Conditions of  $T_A$ =-40°C to 80°C with  $V_{CC}$ =1.8V - 5.0V  $\underline{OR}$   $T_A$ =-25°C to 85°C with  $V_{CC}$ =1.7V - 5.0V  $\underline{OR}$   $T_A$ =0°C to 85°C with  $V_{CC}$ =1.65V - 5.00V produce the performance characteristics below.

Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit	
$V_{IH}$	Input High Voltage	DSR, /SR0	0.65 x V <sub>CC</sub>			V	
V <sub>IL</sub>	Input Low Voltage	DSR, /SR0			0.25 x V <sub>CC</sub>	V	
$V_{OL}$	Low Level Output Voltage	RST, I <sub>OL</sub> =500µA			0.3	V	
$R_{PU}$	Integrated Pull-Up Resistor on /SR0			50		kΩ	
	Input Leakage Current /SR0	V <sub>IN</sub> = V <sub>CC</sub>			±1	μА	
I <sub>IN</sub>	Input Leakage Current DSR	$0V \leq V_{IN} \leq 5.0V$			±1		
Icc	Quiescent Supply Current (Timer Inactive)	/SR0=V <sub>CC</sub>			1	μA	
	Dynamic Supply Current (Timer Active)	/SR0=0V			200		

## **AC Electrical Characteristics**

Conditions of  $T_A$ =-40°C to 80°C with  $V_{CC}$ =1.8V - 5.0V  $\underline{OR}$   $T_A$ =-25°C to 85°C with  $V_{CC}$ =1.7V - 5.0V  $\underline{OR}$   $T_A$ =0°C to 85°C with  $V_{CC}$ =1.65V - 5.00V produce the performance characteristics below.

	Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit
	t <sub>PHL1</sub>	Timer Delay, /SR0 to RST (DSR=0)	$C_L=5pF$ , $R_L=5K\Omega$ ,	8	10	12	s
I	t <sub>REC</sub>	Reset Timeout Delay	See Figure 4	420	530	635	ms

## **Capacitance Specifications**

T<sub>A</sub>=+25°C.

Symbol	Parameter	Condition		Unit
C <sub>IN</sub>	Input Capacitance	V <sub>CC</sub> =GND	4	pF
C <sub>OUT</sub>	Output Capacitance	V <sub>CC</sub> =5.0V	5	pF

## **Functional Description**

Default operation time N is 10s. If the DSR pin is pulled HIGH prior to  $V_{\rm CC}$  ramp, the FT10001 enters Test Mode and the reset output, /RST1, is immediately pulled LOW for factory testing. The DSR pin MUST be forced to GND during normal operation. The DSR pin should never be driven HIGH or left to FLOAT during normal operation. The DSR PIN state should never be changed during device operation; it must be biased prior to supplying the  $V_{\rm CC}$  supply. If there is a need to use the DSR=VCC Test Mode, the /SR0 must be HIGH when the DSR pin is moved from LOW to HIGH to enter Zero-Second Factory-Test Mode. To return to the standard 10-second reset time, the same procedure must be followed with DSR=GND. The DSR pin should never be allowed to change state while the /SR0 pin is LOW.

#### **Operation Modes**

A low input signal on /SR0 starts the oscillator. There are two scenarios for counting: short duration and long duration. In the short-duration scenario, output /RST1 is not affected. In the long-duration scenario, the output /RST1 goes LOW after /SR0 has been held LOW for ≥10s. The /RST1 output returns to its original HIGH

state 530ms after time  $t_{REC}$  has expired, regardless of the state of /SR0. The /RST1 output is an open-drain driver. When the count time exceeds time 10s, the /RST1 output pulls LOW.

#### Short Duration ( $t_W < 10s$ )

When the /SR0 input goes LOW, the internal timer starts counting. If the /SR0 input goes HIGH before 10s has elapsed, the timer stops counting and resets and no changes occur on the outputs.

#### Long Duration ( $t_W > 10s$ )

When the /SR0 input goes LOW, the internal timer starts counting. If the /SR0 input stays LOW for at least 10s, the RST output is enabled and pulled LOW. The output RST is held LOW for  $t_{REC}$ , 530ms, as soon as the reset time of 10s is met, regardless of the state of the /SR0 pin. When the /SR0 input has returned HIGH and  $t_{REC}$  has expired, the internal timer resets and awaits the next RESET event.

#### **Zero-Second Test Mode**

/RST1 goes LOW immediately after /SR0 goes LOW.

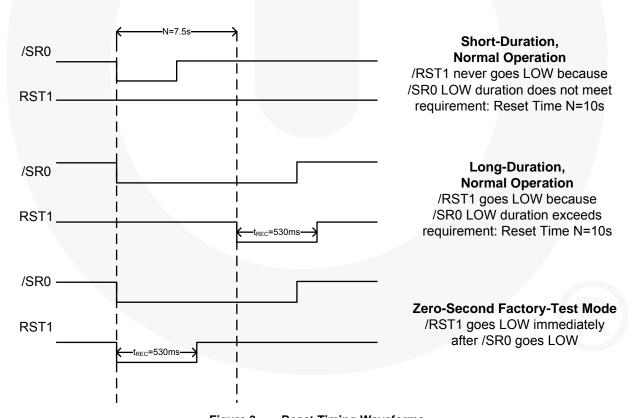
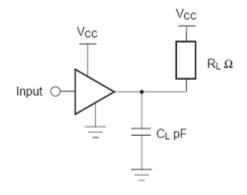


Figure 3. Reset Timing Waveforms

## **AC Test Circuit and Waveforms**



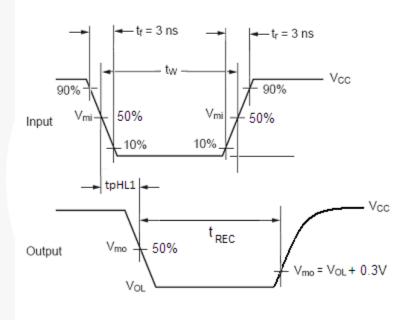
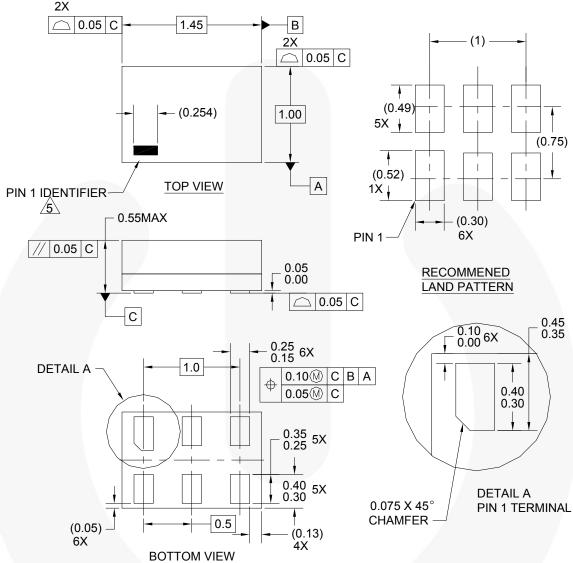


Figure 4. AC Test Circuit and Waveforms for /RST1 Output ST Output

## **Physical Dimensions**



- Notes:
- 1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-1994
- 4. FILENAME AND REVISION: MAC06AREV4
- 5 PIN ONE IDENTIFIER IS 2X LENGTH OF ANY OTHER LINE IN THE MARK CODE LAYOUT.

Figure 5. 6-Lead MicroPak™ 1.0 x 1.45mm, JEDEC MO-252

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#### **Physical Dimensions** 0.35 0.05 C В 1.00 Α 2X 5X 0.40 PIN 1 0.66 MIN 250uM 1.00 1X 0.45 6X 0.19 ○ | 0.05 | C | **TOP VIEW** RECOMMENDED LAND PATTERN 2X FOR SPACE CONSTRAINED PCB 0.90 // 0.05 C 0.35 0.55MAX С 5X 0.52 SIDE VIEW 0.73 1X 0.57 (0.08)4X0.09 0.19 6X 2 **DETAIL A** 3 - 0.20 6X ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION (0.05)6X5X <sup>0.35</sup> 0.25 0.60 0.10M C B A 0.35 0.40 (0.08).05 C 0.30 4X **BOTTOM VIEW** NOTES: A. COMPLIES TO JEDEC MO-252 STANDARD B. DIMENSIONS ARE IN MILLIMETERS. 0.075X45° C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994 **DETAIL A** D. LANDPATTERN RECOMMENDATION IS BASED ON FSC **CHAMFER** PIN 1 LEAD SCALE: 2X DESIGN. E. DRAWING FILENAME AND REVISION: MGF06AREV3

Figure 6. 6-Lead MicroPak2™ 1.0 x 1.0mm, .35mm Pitch

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Rev. 161

## Revisions

Rev 0.0	8/1/11	Sean Ryan	Initial Rev – created from FT7521 datasheet
Rev 0.1	8/11/11	Sean Ryan	Updated the t <sub>REC</sub> to align with reset time of 10sec.
Rev 0.2	8/24/11	Alvan Lam	Added micropak2 information and marketing drawing
Rev 0.3	8/25/11	Alvan Lam	Updated the NMOS symbol in block diagram
Rev 0.4	9/6/11	Alvan Lam	Created revision table instead of using Hidden Text
Rev 1.0.0	12/6/11	Alvan Lam	Changed ABS Max to 7V, initial datasheet released by Techdoc
Rev 1.0.1	12/14/11	Alvan Lam	Added 1.7/-25C condition to align FT7521 datasheet

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