



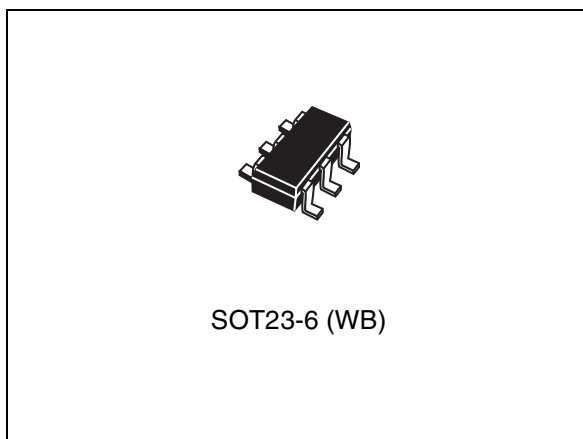
STM6700, STM6710

Low voltage, high accuracy, triple/quad voltage microprocessor supervisory circuit in SOT package

Datasheet – production data

Features

- Accurate monitoring of up to four supply voltages
- Precision factory set reset threshold options for 1.8 V, 2.5 V, 3.0 V, 3.3 V and 5.0 V
- Adjustable input threshold voltage = 0.62 V with 1.5% accuracy
- Low power consumption (< 35 μ A)
- Reset timeout period 200 ms (typ.) - STM6710
- 5 μ s propagation delay (STM6700)
- Open drain $\overline{\text{RESET}}$ output with a weak pull-up (10 μ A)
- $\overline{\text{RESET}}$ - active low - valid to $V_{1IN} = 1$ V or $V_{2IN} = 1$ V
- Immune to power supply transients
- Guaranteed from -40 to $+85$ $^{\circ}\text{C}$
- Small 6-pin SOT23 package
- RoHS compliant



Applications

- Telecommunications
- Set-top boxes
- Networking equipment
- Server/workstations
- Desktop and notebook computers
- Data storage equipment

Table 1. Device summary

Part number	V1IN (V)	V2IN (V)	V3IN (V)	V4IN (V)	Power supply tolerance	Temperature range	Package
STM6710DWB6F	5	3.3	1.8	Adj.	5%	-40 to $+85$ $^{\circ}\text{C}$	SOT23-6
STM6710FWB6F	Adj.	3.3	2.5	1.8	5%	-40 to $+85$ $^{\circ}\text{C}$	SOT23-6
STM6710KWB6F	Adj.	3.3	1.8	Adj.	10%	-40 to $+85$ $^{\circ}\text{C}$	SOT23-6
STM6710LWB6F	Adj.	3.3	1.8	Adj.	5%	-40 to $+85$ $^{\circ}\text{C}$	SOT23-6

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1 Description

The STM6710 is a precision voltage monitoring supervisor with the capability to monitor triple/quad voltages and combines competitive reset threshold accuracy with low power consumption.

Factory-trimmed reset threshold options for monitoring 5.0 V, 3.3 V, 2.5 V and 1.8 V supplies with –5% and –10% tolerances are available.

If a monitored supply voltage input falls below the minimum voltage threshold, a single active low output is asserted, triggering a system reset.

This device can be configured to support an external manual reset input using minimal external components.

Monitoring up to four different voltages in a small 6-lead SOT23 package, the STM6710 devices can help to lower system cost, reduce board space requirements, and increase the reliability of multi-voltage systems.

Low V_{CC} detection circuitry protects the user's system from low voltage conditions, resetting the system when V_{CC} or any of the other monitored power supply voltages fall below their respective minimum voltage thresholds. The reset signal remains asserted until all of these voltages return to proper operating levels and stabilize.

STM6710 includes internally fixed monitoring voltages for 5.0 V, 3.3 V, 3.0 V, 2.5 V and 1.8 V supplies with –5% and –10% tolerances.

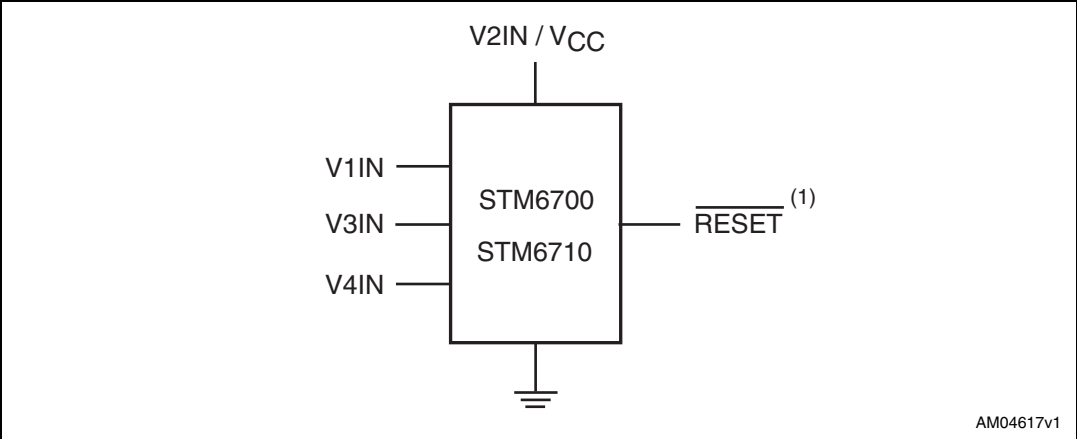
This device will function as a triple monitoring voltage supervisor (STM6700) when V2IN is used as V_{CC} .

The output is open drain with a weak internal pull-up to the monitored V2IN supply (or V_{CC} in the case of STM6710Q) of typically 10 μ A. Once all voltages rise above the selected threshold level, the STM6710 reset signal remains low for the reset timeout period of 200 ms (typical). The STM6700 acts as a voltage detector with a propagation delay of 5 μ s after all monitored voltages exceed their thresholds.

The STM6710 output remains valid as long as V1IN or V2IN exceeds 1 V. For the STM6700 and STM6710 the condition is to have V_{CC} above 2 V.

The STM6700/STM6710 are available in a 6-pin small SOT23 package and operate over the temperature range of –40 to +85 °C.

Figure 1. Logic diagram

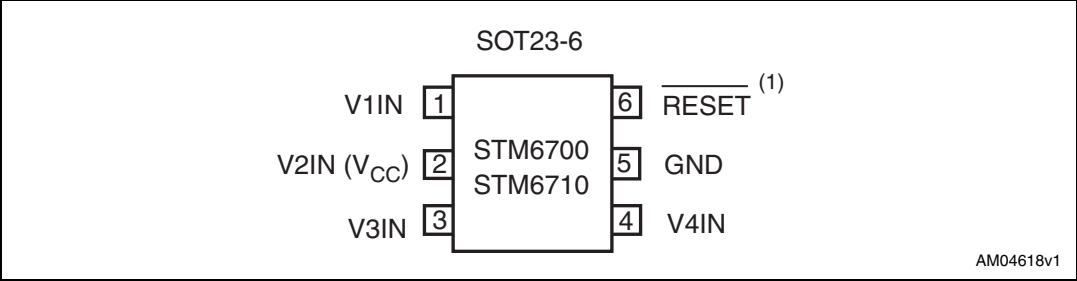


1. Open drain

Table 2. Signal names

Pin	Name	Type	Function (STM6710 / STM6700)
1	V1IN	Input	Input voltage 1
2	V2IN	Input/supply	Input voltage 2 and device power supply pin
	V _{CC}		For the triple monitor voltage STM6700 and for STM6710Q, this pin is the V _{CC} supply pin and it is not monitored
3	V3IN	Input	Input voltage 3
4	V4IN	Input	Input voltage 4
5	GND	Supply	Ground
6	RESET	Output	Active low, open drain RESET output. Output goes low when any input drops below the specified threshold. Once all inputs rise above their threshold voltages, RESET remains low for typical 200 ms (STM6710) before going high. For the triple monitor (STM6700) it remains low for 5 μs (propagation delay - no t _{REC}). The open drain RESET has a weak (10 μA) internal pull-up to V2IN (STM6710) or V _{CC} (STM6700/STM6710Q).

Figure 2. Pinout SOT23-6



1. Open drain

Note: For the STM6700 and STM6710Q, pin 2 is a fixed V_{CC}, thereby making it a triple voltage reset, while the STM6710 is a quad voltage reset.

Pin descriptions

V1IN, V3IN, V4IN (VxIN)

The VxIN pins are used for nominal input voltages for 1.8 V, 2.5 V and 5.0 V supplies. The voltage at this pin is compared against an internal factory-programmed voltage trip point, V_{rst} .

\overline{RESET} is first asserted low when the device is initially powered and $V_{xIN} < 1$ V and then at any time thereafter when V_{xIN} falls below V_{rst} . The device is designed with typical hysteresis of 0.3% with respect to its threshold to help prevent oscillation due to noise and is immune to brief power supply transients.

V2IN

The V2IN is used to power the STM6710 device. In normal operations V2IN is also monitored. For STM6710Q and STM6700 variations this pin is the V_{CC} power supply but is not monitored.

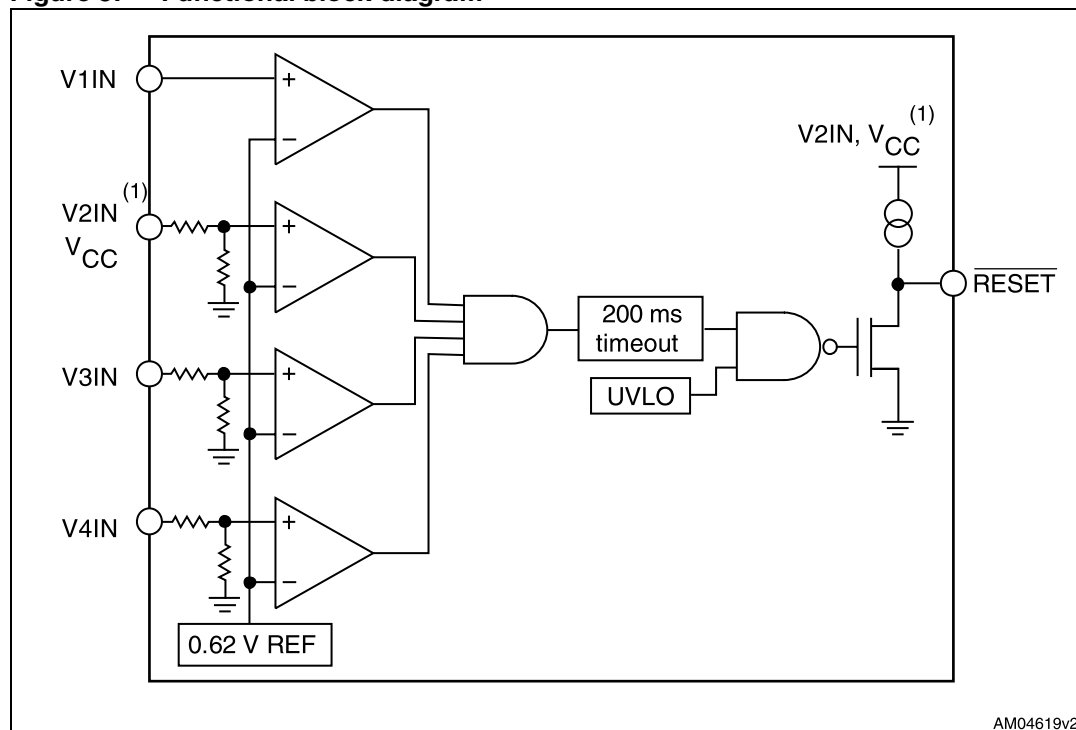
Ground (V_{SS})

This pin (GND) is the ground pin for the power supply and is tied to V_{SS} .

\overline{RESET}

The \overline{RESET} output is an open drain output that asserts low whenever a monitored supply falls below the minimum threshold. STM6710 provides an extended reset timeout period of typically 200 ms.

Figure 3. Functional block diagram

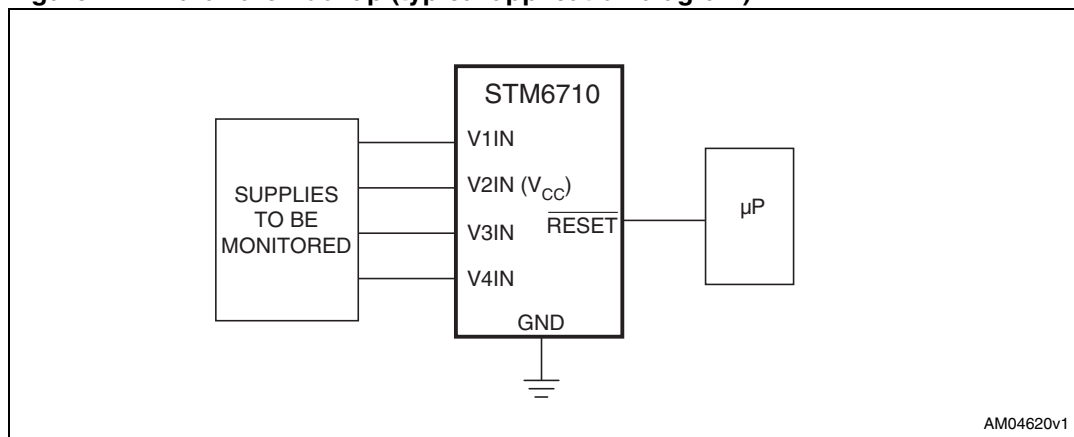


1. The STM6700 and STM6710Q are powered via the V2IN input which is the supply voltage. When this pin is V_{CC} , the input is not monitored.

2 Operation

The STM6710 is capable of monitoring up to 4 voltages in a multisupply application. The device is available in several preset voltage thresholds for power supplies of 1.8 V, 2.5 V, 3.0 V, 3.3 V and 5.0 V. The STM6710 is powered by the V2IN pin which is also a monitored voltage, thus making this a quad voltage monitor. The STM6710Q and STM6700 use this pin as V_{CC} which is not monitored and thereby limits these devices to three adjustable voltage inputs. If any of the monitored input voltage falls below its associated threshold, the active low reset output is asserted and remains low as long as V1IN or V2IN remains above 1.0 V.

Figure 4. Hardware hookup (typical application diagram)



2.1 $\overline{\text{RESET}}$ output configuration

The $\overline{\text{RESET}}$ output asserts low if a monitored input voltage drops below its threshold. This is an open drain with a weak internal pull-up to V2IN or the V_{CC} supply, and is typically 10 μA . However, many applications may not require an external pull-up resistor. In case a pull-up resistor is required and is connected to a voltage ranging from 0 to 5.5 V (as shown in [Figure 5](#)), it can overdrive the weak internal pull-up. The STM6710 has built-in circuitry to prevent this reverse current flow to V2IN under this condition.

Figure 5. Interface to external pull-up using a different supply voltage

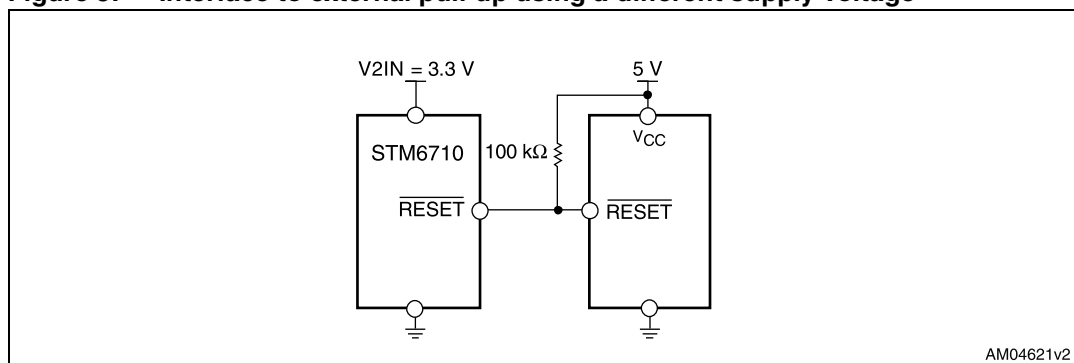
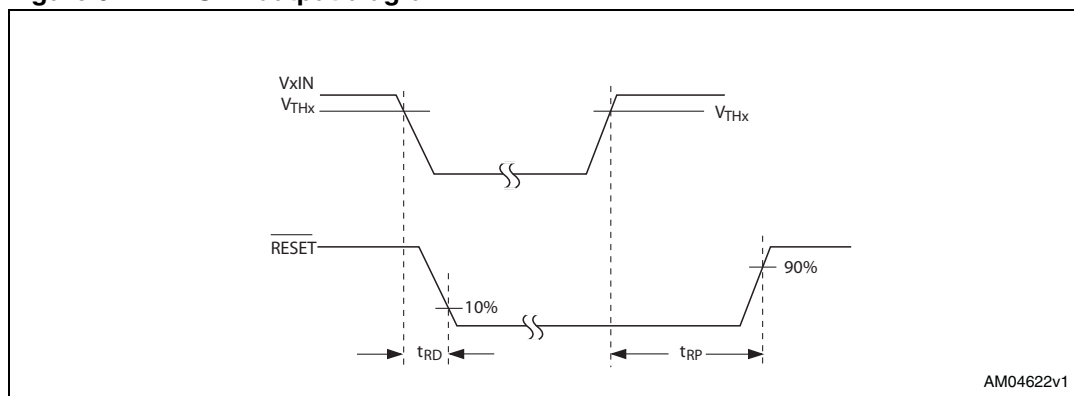


Figure 6. $\overline{\text{RESET}}$ output diagram

2.2 Adjustable thresholds (input configurations)

The STM6700/STM6710 may be configured to monitor several options with adjustable reset thresholds. The threshold voltages at each adjustable input VxIN is typically 0.62 V. Thus to monitor a voltage > 0.62 V, a resistor divider network as shown in [Figure 7](#) can be used.

The STM6710 allows users to customize the minimum voltage sense level with adjustable reset thresholds. The threshold voltage at each adjustable input VxIN is typically 0.62 V. For example, the user can adjust the voltage input threshold (VTHx) for V1IN, V3IN and V4IN inputs. To do this, connect an external resistor divider network to the VxIN pin in order to set the trip point to some other voltage above 620 mV according to [Equation 1](#) and [Equation 2](#) which is also shown in [Figure 7](#).

Equation 1

$$V_{THx} = 0.62V \times \frac{(R1 + R2)}{R2}$$

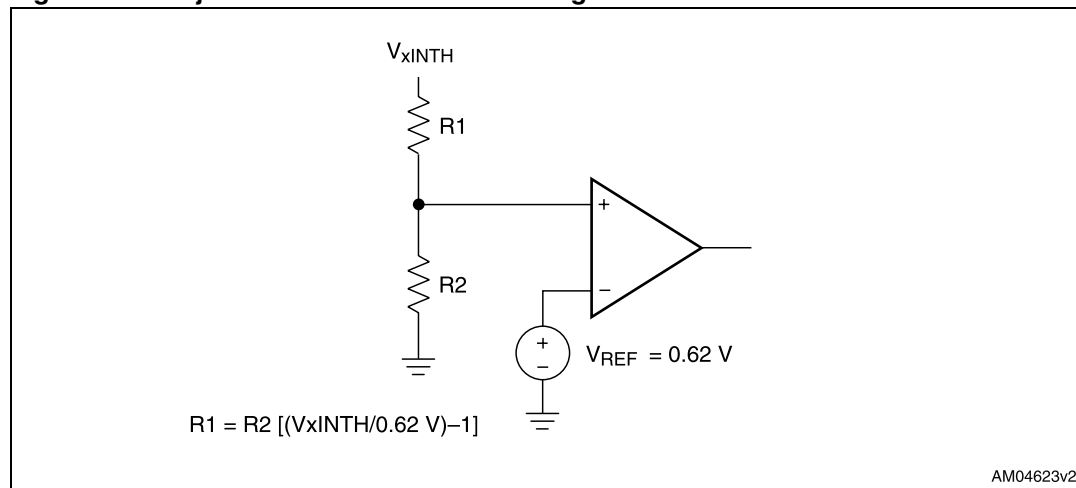
or solved in terms of R1:

Equation 2

$$R1 = R2 \left(\frac{V_{THx}}{0.62V} - 1 \right)$$

The STM6700/STM6710 have an input current of less than $\pm 0.2 \mu A$ ($\pm 0.4 \mu A$ for VIN1) on their adjustable inputs, therefore resistor values of up to 100 k Ω can be used for R2 with < 1% error.

Figure 7. Adjustable thresholds monitoring



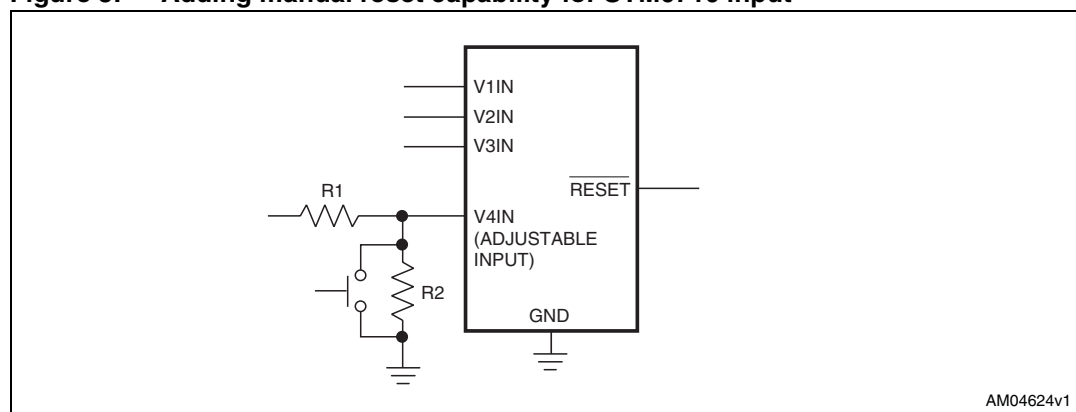
2.3 Unused inputs

Connect unused monitor inputs to a supply voltage greater in magnitude than their specified threshold voltages. For unused VxIN adjustable inputs connect a 1 M Ω resistor between unused input and V2IN or (V_{CC}) to limit the bias current. Use V2IN for normal operation (device power supply pin). Do not connect unused monitor inputs to ground or allow them to float.

2.4 Adding manual reset capability

Figure 8 shows a circuit which can be used to add manual reset capability for the STM6710. Depressing the push button switch short-circuits the analog input to ground and initiates a $\overline{\text{RESET}}$ pulse. The switch must be open for at least 140 ms in order to deassert the $\overline{\text{RESET}}$ output. No external switch debounce is required. A small capacitor may be used to improve noise immunity. *Figure 8* shows the addition of the manual reset capability.

Figure 8. Adding manual reset capability for STM6710 input



3 Maximum ratings

Stressing the device above the rating listed in [Table 3](#) may cause permanent damage to the device. These are stress ratings only and operation of the device at these or any other conditions above those indicated in [Table 4](#) of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability. Refer also to the STMicroelectronics™ SURE program and other relevant quality documents.

Table 3. Absolute maximum ratings

Symbol	Parameter	Value	Unit
T_{STG}	Storage temperature (V_{CC} off)	-55 to +150	°C
$T_{SLD}^{(1)}$	Lead solder temperature for 10 seconds	260	°C
V_{IO}	Input or output voltage	-0.3 to $V_{CC} + 0.3$	V
V_{CC}	Supply voltage	-0.3 to +7.0 V	V
I_O	Output current	20	mA
θ_{JA}	Thermal resistance (junction to ambient)	N/A	°C/W

1. Reflow at peak temperature of 260 °C. The time above 255 °C must not exceed 30 seconds.

4 DC and AC parameters

This section summarizes the DC and AC characteristics of the device. The parameters in [Table 5](#) are derived from tests performed under the test conditions. Designers should check that the operating conditions in their circuit match the operating conditions when relying on the quoted parameters.

Table 4. Operating and AC measurement conditions

Parameter	Conditions	Unit
V _{2IN} supply voltage (T _A = 0 to 85 °C)	1.0 to 5.5	V
V _{2IN} supply voltage (T _A = -40 to 85 °C)	1.2 to 5.5	
V _{CC} supply voltage (for STM6700 and STM6710Q)	2.0 to 5.5	
Ambient operating temperature (T _A)	-40 to 85	°C

Table 5. DC and AC characteristics

Alt.	Symbol	Parameter	Test conditions	Min.	Typ. ⁽¹⁾	Max.	Unit
V _{CC}	V _{2IN}	Operating voltage	T _A = 0 to +85 °C	1.0		5.5	V
			T _A = -40 to +85 °C	1.2		5.5	
	V _{CC}	STM6700 and STM6710Q		2.0		5.5	
	I _{XIN}	Input current	V _{XIN} nominal input voltage (1.8 V, 2.5 V, 5.0 V supplies)		25	40	μA
			V _{2IN} = nominal input voltage for 3.0 V and 3.3 V supplies		55	115	
			V _{1IN} = 0 to 0.85 V (for adjustable thresholds)			0.4	
			V _{3IN} , V _{4IN} = 0 to 0.85 V (for adjustable thresholds)			0.2	
I _{CC}	I _{2N}	I _{2N} input current	STM6700 and STM6710Q only V _{CC} = 5.5 V		35	50	μA

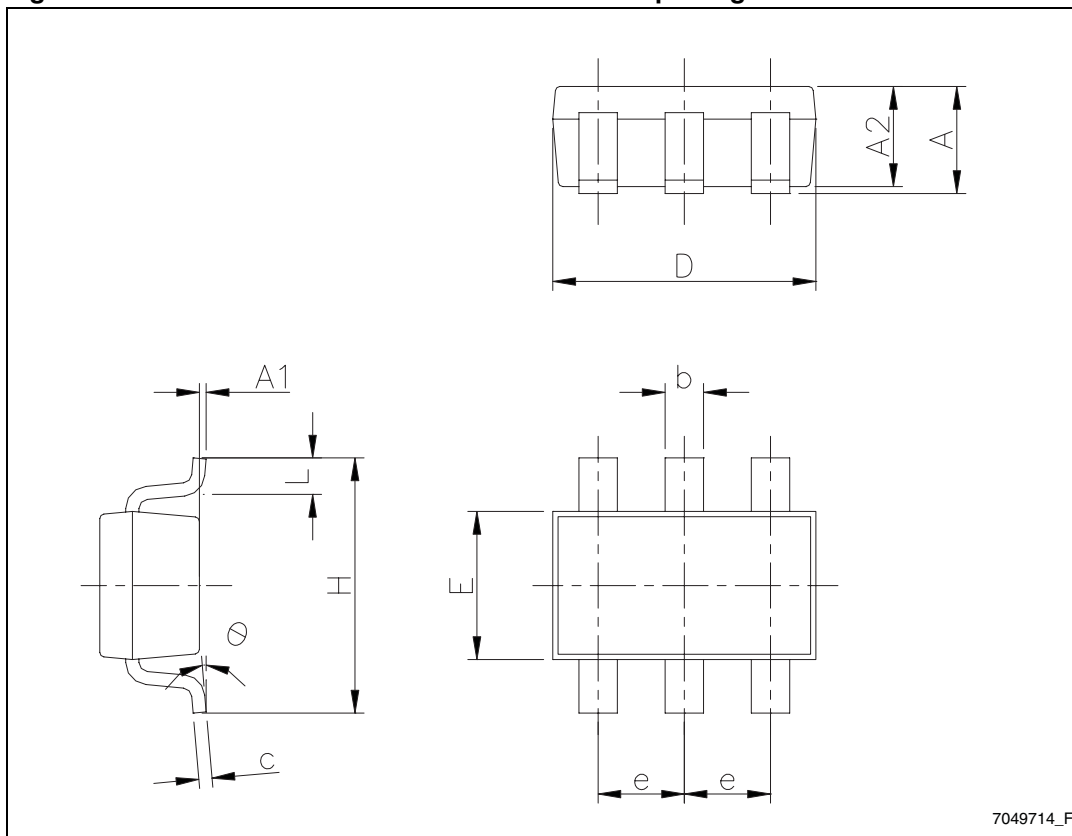
Table 5. DC and AC characteristics (continued)

Alt.	Symbol	Parameter	Test conditions	Min.	Typ. ⁽¹⁾	Max.	Unit
Voltage thresholds							
Vrst	V _{TH}	VxIN falling	5 V (–5%)	4.500	4.630	4.750	V
			5 V (–10%)	4.250	4.380	4.450	
			3.3 V (–5%)	3.000	3.080	3.150	
			3.3 V (–10%)	2.850	2.930	3.000	
			3.0 V (–5%)	2.700	2.780	2.850	
			3.0 V (–10%)	2.550	2.630	2.70	
			2.5 V (–5%)	2.250	2.320	2.380	
			2.5 V (–10%)	2.130	2.190	2.250	
			1.8 V (–5%)	1.620	1.670	1.710	
			1.8 V (–10%)	1.530	1.580	1.620	
Vrstxin	V _{REF}	V1IN, V2IN, V3IN, V4IN adj. reset threshold voltage	VxIN decreasing	0.611	0.620	0.629	V
V _{HYST}		Hysteresis of V _{TH}			0.3		%V _{TH}
	TCVTH	Reset threshold temperature coefficient			60		ppm/°C
Reset							
t _{RD}	t _{RPD}	V _{TH} to reset asserted delay	VxIN falling at 10 mV/μs from V _{TH} to (V _{TH} – 50 mV)		30		μs
t _{RP}	t _{REC}	Reset timeout delay	STM6710	140	200	280	ms
t _{PD}		Propagation delay	STM6700 only		5		μs
	V _{OL}	$\overline{\text{RESET}}$ output low	V2IN, V _{CC} = 5 V, I _{SINK} = 2 mA			0.3	V
			V2IN, V _{CC} = 2.5 V, I _{SINK} = 1.2 mA			0.4	
			V2IN = 1.0 V, I _{SINK} = 50 μA, T _A = 0 to +85 °C			0.3	
	V _{OH}	$\overline{\text{RESET}}$ output high	V _{CC} ≥ 2.0 V, I _{SOURCE} = 6 μA, $\overline{\text{RESET}}$ deasserted (STM6700)	0.8 x V _{CC}			
			V _{CC} ≥ V _{TH} , I _{SOURCE} = –6 μA, $\overline{\text{RESET}}$ deasserted	0.8 x V2IN			
	I _{OH}	$\overline{\text{RESET}}$ output high source current	V2IN ≥ 2.0 V, $\overline{\text{RESET}}$ deasserted		10		μA

1. V2IN = 1 V to 5.5 V, T_A = –40 to +85 °C, unless otherwise stated. Typical values are at V2IN = 3.0 V to 3.3 V, T_A = +25 °C.

5 Package mechanical data

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK[®] packages, depending on their level of environmental compliance. ECOPACK[®] specifications, grade definitions and product status are available at: www.st.com. ECOPACK[®] is an ST trademark.

Figure 9. SOT23 – 6-lead small outline transistor package mechanical outline**Table 6. SOT23 – 6-lead small outline transistor package mechanical data**

Symbol	Dimensions					
	mm			inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	0.9		1.45	0.035		0.057
A1	0		0.10	0		0.0039
A2	0.9		1.3	0.035		0.0512
b	0.35		0.5	0.014		0.02
c	0.09		0.2	0.004		0.008
D	2.8		3.05	0.11		0.120
E	1.5		1.75	0.059		0.0689
e		0.95			0.037	
H	2.6		3	0.102		0.118
L	0.1		0.6	0.004		0.024
θ	0°		10°	0°		10°

Figure 10. SOT23-6 landing pattern

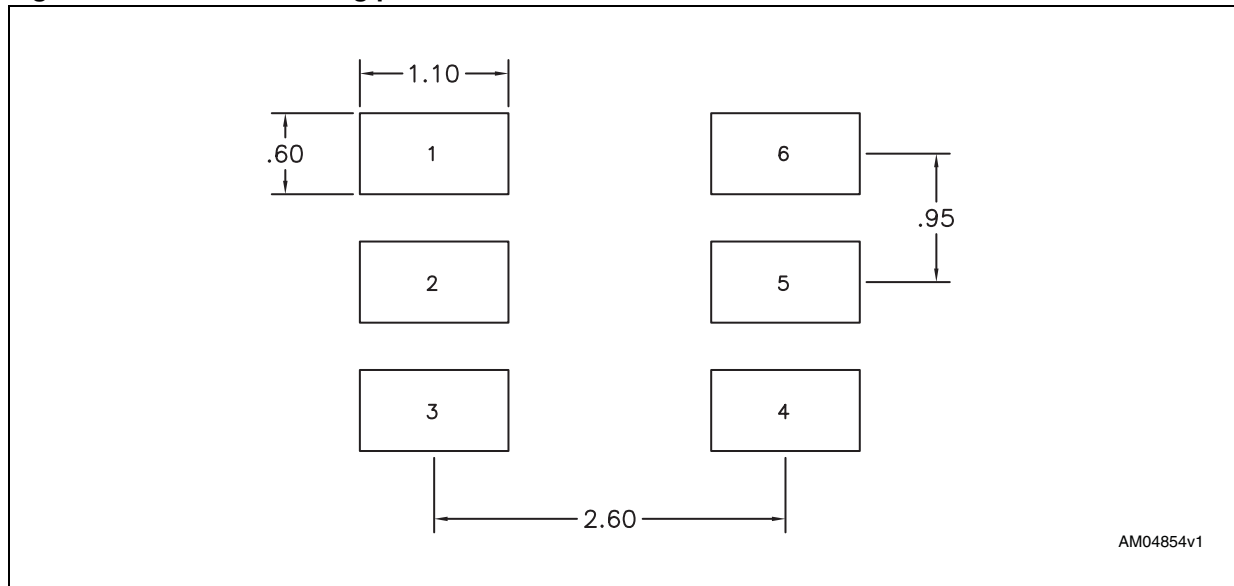


Figure 11. Carrier tape for SOT23-6

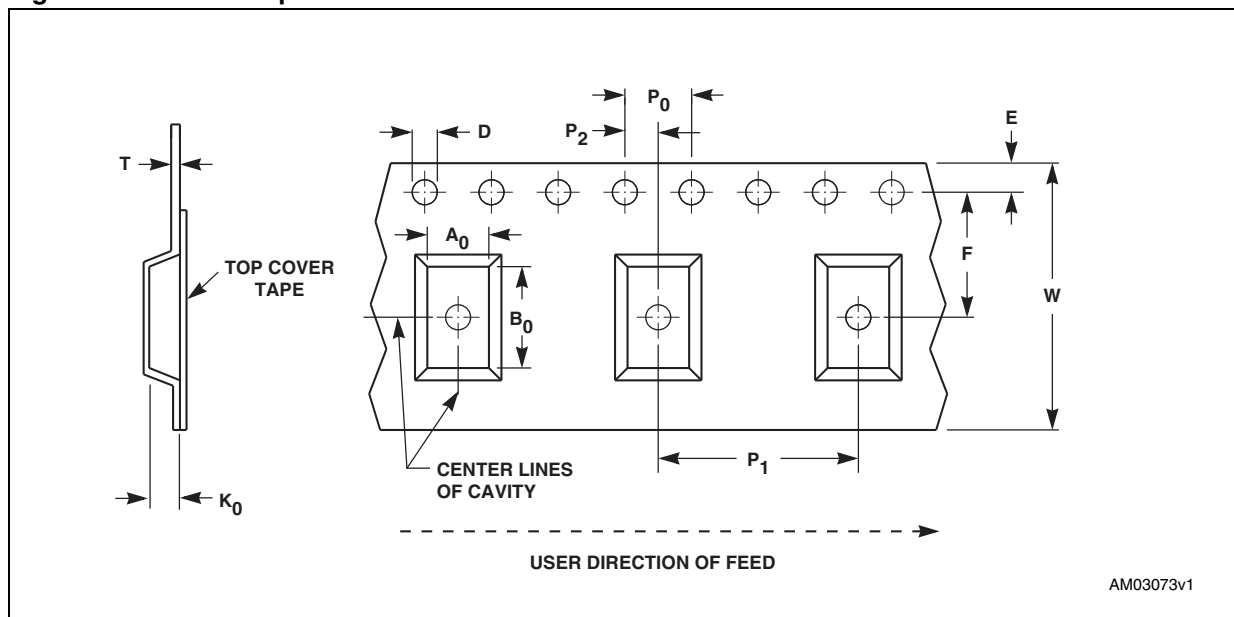


Table 7. Carrier tape dimensions for SOT23-6

Package	W	D	E	P ₀	P ₂	F	A ₀	B ₀	K ₀	P ₁	T	Unit	Bulk qty.
SOT23-6	8.00 +0.30/ -0.10	1.50 +0.10/ -0.00	1.75 ±0.10	4.00 ±0.10	2.00 ±0.10	3.50 ±0.05	3.23 ±0.10	3.17 ±0.10	1.37 ±0.10	4.00 ±0.10	0.254 ±0.013	mm	3000

6 Part numbering

Table 8. Ordering information scheme

Example:	STM6710	F	WB	6	F
Device type					
STM6700 ⁽¹⁾					
STM6710					
Threshold combination					
Refer to Table 9					
Package					
WB = SOT23-6					
Temperature range					
6 = -40 to +85 °C					
Shipping method					
F = ECOPACK® package, tape and reel packing					

1. Contact local ST sales office for availability

For other options, or for more information on any aspect of this device, please contact the ST sales office nearest you.



7 STM6700 / STM6710 device selector guide

The STM6700/STM6710 are designed for various voltage thresholds and configurations, however not all variations are shown in [Table 9](#). Please contact local ST sales office for availability.

Table 9. STM6700/STM6710 device selector summary

Part name	Monitored pins				Supply pin	t _{REC} (ms)	Supply tolerance (%)	Top marking	Comments
	V1IN (V)	V2IN (V)	V3IN (V)	V4IN (V)					
STM6710AWB6F	5	3.3	2.5	Adj.	V2IN	200	10	D6BA	Contact ST sales office
STM6710BWB6F	5	3.3	2.5	Adj.	V2IN	200	5	D6BB	Contact ST sales office
STM6710CWB6F	5	3.3	1.8	Adj.	V2IN	200	10	D6BC	Contact ST sales office
STM6710DWB6F	5	3.3	1.8	Adj.	V2IN	200	5	D6BD	Available
STM6710EWB6F	Adj.	3.3	2.5	1.8	V2IN	200	10	D6BE	Contact ST sales office
STM6710FWB6F	Adj.	3.3	2.5	1.8	V2IN	200	5	D6BF	Available
STM6710GWB6F	5	3.3	Adj.	Adj.	V2IN	200	10	D6BG	Contact ST sales office
STM6710HWB6F	5	3.3	Adj.	Adj.	V2IN	200	5	D6BH	Contact ST sales office
STM6710IWB6F	Adj.	3.3	2.5	Adj.	V2IN	200	10	D6BI	Contact ST sales office
STM6710JWB6F	Adj.	3.3	2.5	Adj.	V2IN	200	5	D6BJ	Available
STM6710KWB6F	Adj.	3.3	1.8	Adj.	V2IN	200	10	D6BK	Available
STM6710LWB6F	Adj.	3.3	1.8	Adj.	V2IN	200	5	D6BL	Available
STM6710MWB6F	Adj.	3	2.5	Adj.	V2IN	200	10	D6BM	Contact ST sales office
STM6710NWB6F	Adj.	3	2.5	Adj.	V2IN	200	5	D6BN	Contact ST sales office
STM6710OWB6F	Adj.	3	1.8	Adj.	V2IN	200	10	D6BO	Contact ST sales office
STM6710PWB6F	Adj.	3	1.8	Adj.	V2IN	200	5	D6BP	Contact ST sales office
STM6710QWB6F	Adj.	V _{CC}	Adj.	Adj.	V _{CC}	N/A	N/A	D6BQ	Contact ST sales office
STM6700WB6F	Adj.	V _{CC}	Adj.	Adj.	V _{CC}	N/A	N/A	D6BZ	Contact ST sales office

8 Revision history

Table 10. Document revision history

Date	Revision	Changes
09-Dec-2009	1	Initial release.
15-May-2012	2	Added Table 4 and cross-reference to Table 4 in Section 3 , updated Section 1 , Table 9 , minor corrections throughout document.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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