

ADM13305* Product Page Quick Links

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TABLE OF CONTENTS

Features	1	ESD Caution.....	6
Applications.....	1	Pin Configuration and Function Descriptions.....	7
General Description	1	Typical Performance Characteristics	8
Functional Block Diagrams.....	1	Theory of Operation	10
Revision History	2	Input Configuration	10
Specifications.....	3	Reset Output	10
Timing Requirements	5	Watchdog Timer.....	10
Switching Characteristics	5	Manual Reset ($\overline{\text{MR}}$).....	11
Functional Truth Table	5	Outline Dimensions	12
Absolute Maximum Ratings.....	6	Ordering Guide	12
Thermal Resistance	6		

REVISION HISTORY

8/07—Revision 0: Initial Version

SPECIFICATIONS

$V_{DD} = 2.7\text{ V to }5.5\text{ V}$, $-40^{\circ}\text{C} \leq T_A \leq +85^{\circ}\text{C}$, unless otherwise noted.

Table 1. ADM13305-18, ADM13305-25, and ADM13305-33

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
OPERATING VOLTAGE RANGE, V_{DD}	2.7		5.5	V	
SUPPLY CURRENT, I_{DD}			40	μA	
INPUT CAPACITANCE, C_I		10		pF	$V_I = 0\text{ V to }V_{DD}$
RESET, $\overline{\text{RESET}}$ OUTPUT					
High Level Output Voltage, V_{OH}	$V_{DD} - 0.2$			V	$I_{OH} = -20\text{ }\mu\text{A}$
	$V_{DD} - 0.4$			V	$I_{OH} = -2\text{ mA}$, $V_{DD} = 3.3\text{ V}$
	$V_{DD} - 0.4$			V	$I_{OH} = -3\text{ mA}$, $V_{DD} = 5.5\text{ V}$
Low Level Output Voltage, V_{OL}		0.2		V	$I_{OL} = 20\text{ }\mu\text{A}$
		0.4		V	$I_{OL} = 2\text{ mA}$, $V_{DD} = 3.3\text{ V}$
		0.4		V	$I_{OL} = 3\text{ mA}$, $V_{DD} = 5.5\text{ V}$
Power-Up Reset Voltage ¹		0.4		V	$I_{OL} = 20\text{ }\mu\text{A}$, $V_{DD} \geq 1.1\text{ V}$
SENSE INPUTS					
Falling Threshold Voltage, V_{IT-}	1.64	1.68	1.72	V	$T_A = 0^{\circ}\text{C to }85^{\circ}\text{C}$
	2.20	2.25	2.30	V	$T_A = 0^{\circ}\text{C to }85^{\circ}\text{C}$
	2.86	2.93	3.00	V	$T_A = 0^{\circ}\text{C to }85^{\circ}\text{C}$
	4.46	4.55	4.64	V	$T_A = 0^{\circ}\text{C to }85^{\circ}\text{C}$
	1.64	1.68	1.73	V	$T_A = -40^{\circ}\text{C to }+85^{\circ}\text{C}$
	2.20	2.25	2.32	V	$T_A = -40^{\circ}\text{C to }+85^{\circ}\text{C}$
	2.86	2.93	3.02	V	$T_A = -40^{\circ}\text{C to }+85^{\circ}\text{C}$
	4.46	4.55	4.67	V	$T_A = -40^{\circ}\text{C to }+85^{\circ}\text{C}$
Hysteresis at SENSEv Inputs, V_{HYS}		15		mV	$V_{IT-} = 1.68\text{ V}$
		20		mV	$V_{IT-} = 2.25\text{ V}$
		30		mV	$V_{IT-} = 2.93\text{ V}$
		40		mV	$V_{IT-} = 4.55\text{ V}$
WDI					
Average High Level Input Current, $I_{H(AV)}$		100	150	μA	$\text{WDI} = V_{DD} = 5.5\text{ V}$
Average Low Level Input Current, $I_{L(AV)}$		-15	-20	μA	$\text{WDI} = 0\text{ V}$, $V_{DD} = 5.5\text{ V}$
INPUT VOLTAGE AT $\overline{\text{MR}}$ AND WDI					
High Level, V_{IH}	$0.7 \times V_{DD}$			V	
Low Level, V_{IL}			$0.3 \times V_{DD}$	V	
INPUT TRANSITION RISE AND FALL RATE AT $\overline{\text{MR}}$			50	ns/V	
HIGH LEVEL INPUT CURRENT, I_H					
WDI		120	170	μA	$\text{WDI} = V_{DD} = 5.5\text{ V}$
$\overline{\text{MR}}$		-130	-180	μA	$\overline{\text{MR}} = 0.7 \times V_{DD}$, $V_{DD} = 5.5\text{ V}$
SENSE1		5	8	μA	$\text{SENSE1} = V_{DD} = 5.5\text{ V}$
SENSE2		6	9	μA	$\text{SENSE2} = V_{DD} = 5.5\text{ V}$
LOW LEVEL INPUT CURRENT, I_L					
WDI		-120	-170	μA	$\text{WDI} = 0\text{ V}$, $V_{DD} = 5.5\text{ V}$
$\overline{\text{MR}}$		-430	-600	μA	$\overline{\text{MR}} = 0\text{ V}$, $V_{DD} = 5.5\text{ V}$
SENSEv	-1		+1	μA	$\text{SENSE1, SENSE2} = 0\text{ V}$

¹ The lowest supply voltage at which $\overline{\text{RESET}}$ becomes active. t_r , $V_{DD} \geq 15\text{ }\mu\text{s/V}$.

ADM13305

$V_{DD} = 2.7 \text{ V to } 5.5 \text{ V}$, $-40^{\circ}\text{C} \leq T_A \leq +85^{\circ}\text{C}$, unless otherwise noted.

Table 2. ADM13305-4 and ADM13305-5

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
OPERATING VOLTAGE RANGE, V_{DD}	2.7		5.5	V	
SUPPLY CURRENT, I_{DD}			40	μA	
INPUT CAPACITANCE, C_I		10		pF	$V_I = 0 \text{ V to } V_{DD}$
RESET, $\overline{\text{RESET}}$ OUTPUT					
High-Level Output Voltage, V_{OH}	$V_{DD} - 0.2$			V	$I_{OH} = -20 \mu\text{A}$
	$V_{DD} - 0.4$			V	$I_{OH} = -2 \text{ mA}$, $V_{DD} = 3.3 \text{ V}$
	$V_{DD} - 0.4$			V	$I_{OH} = -3 \text{ mA}$, $V_{DD} = 5.5 \text{ V}$
Low-Level Output Voltage, V_{OL}		0.2		V	$I_{OH} = 20 \mu\text{A}$
		0.4		V	$I_{OH} = 2 \text{ mA}$, $V_{DD} = 3.3 \text{ V}$
		0.4		V	$I_{OH} = 3 \text{ mA}$, $V_{DD} = 5.5 \text{ V}$
Power-Up Reset Voltage ¹		0.4		V	$I_{OH} = 20 \mu\text{A}$, $V_{DD} \geq 1.1 \text{ V}$
SENSEv INPUTS					
Falling Input Threshold Voltage, V_{IT-}	0.5952	0.6	0.6048	V	$T_A = -40^{\circ}\text{C to } +85^{\circ}\text{C}$
	2.23	2.25	2.29	V	$T_A = -40^{\circ}\text{C to } +85^{\circ}\text{C}$
	2.90	2.93	2.98	V	$T_A = -40^{\circ}\text{C to } +85^{\circ}\text{C}$
Hysteresis at SENSEv Inputs, V_{HYS}		0		mV	$V_{IT-} = 0.6 \text{ V}$
		20		mV	$V_{IT-} = 2.25 \text{ V}$
		30		mV	$V_{IT-} = 2.93 \text{ V}$
WDI					
Average High Level Input Current, $I_{H(AV)}$		100	150	μA	$\text{WDI} = V_{DD} = 5.5 \text{ V}$
Average Low Level Input Current, $I_{L(AV)}$		-15	-20	μA	$\text{WDI} = 0 \text{ V}$, $V_{DD} = 5.5 \text{ V}$
INPUT VOLTAGE AT $\overline{\text{MR}}$ AND WDI					
High Level, V_{IH}	$0.7 \times V_{DD}$			V	
Low Level, V_{IL}			$0.3 \times V_{DD}$	V	
INPUT TRANSITION RISE AND FALL RATE AT $\overline{\text{MR}}$			50	ns/V	
HIGH LEVEL INPUT CURRENT, I_H					
WDI		120	170	μA	$\text{WDI} = V_{DD} = 5.5 \text{ V}$
$\overline{\text{MR}}$		-130	-180	μA	$\overline{\text{MR}} = 0.7 \times V_{DD}$, $V_{DD} = 5.5 \text{ V}$
SENSE1		5	8	μA	$\text{SENSE1} = V_{DD} = 5.5 \text{ V}$
SENSE2	-50		+50	nA	$\text{SENSE2} = V_{DD} = 5.5 \text{ V}$
LOW LEVEL INPUT CURRENT, I_L					
WDI		-120	-170	μA	$\text{WDI} = 0 \text{ V}$, $V_{DD} = 5.5 \text{ V}$
$\overline{\text{MR}}$		-430	-600	μA	$\overline{\text{MR}} = 0 \text{ V}$, $V_{DD} = 5.5 \text{ V}$
SENSEv	-1		+1	μA	$\text{SENSE1, SENSE2} = 0 \text{ V}$

¹ The lowest supply voltage at which $\overline{\text{RESET}}$ becomes active. t_r , $V_{DD} \geq 15 \mu\text{s/V}$.

TIMING REQUIREMENTS

$V_{DD} = 2.7 \text{ V to } 5.5 \text{ V}$, $R_L = 1 \text{ M}\Omega$, $C_L = 50 \text{ pF}$, $T_A = 25^\circ\text{C}$.

Table 3. ADM13305-18, ADM13305-25 and ADM13305-33

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
PULSE WIDTH (t_w)					
SENSEv	6			μs	$V_{\text{SENSEvL}} = V_{\text{IT-}} - 0.3 \text{ V}$, $V_{\text{SENSEvH}} = V_{\text{IT+}} + 0.3 \text{ V}$
MR	100			ns	$V_{\text{IH}} = 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} = 0.3 \times V_{\text{DD}}$
WDI	100			ns	$V_{\text{IH}} = 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} = 0.3 \times V_{\text{DD}}$

Table 4. ADM13305-4 and ADM13305-5

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
PULSE WIDTH (t_w)					
SENSEv		30		μs	$V_{\text{SENSEvL}} = V_{\text{IT-}} - 0.3 \text{ V}$, $V_{\text{SENSEvH}} = V_{\text{IT+}} + 0.3 \text{ V}$
MR	100			ns	$V_{\text{IH}} = 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} = 0.3 \times V_{\text{DD}}$
WDI	100			ns	$V_{\text{IH}} = 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} = 0.3 \times V_{\text{DD}}$

SWITCHING CHARACTERISTICS

$V_{DD} = 2.7 \text{ V to } 5.5 \text{ V}$, $R_L = 1 \text{ M}\Omega$, $C_L = 50 \text{ pF}$, $T_A = 25^\circ\text{C}$.

Table 5. ADM13305-18, ADM13305-25 and ADM13305-33

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
Watchdog Timeout ($t_{\text{t(OUT)}}$)	1.1	1.6	2.3	sec	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$
Delay Time (t_d)	140	200	280	ms	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$
Propagation Delay, High-to-Low, $\overline{\text{MR}}$ to RESET ¹ / $\overline{\text{RESET}}$ (t_{PHL})		200	500	ns	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $V_{\text{IH}} \geq 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} \geq 0.3 \times V_{\text{DD}}$
Propagation Delay, Low-to-High, $\overline{\text{MR}}$ to RESET/ $\overline{\text{RESET}}$ ¹ (t_{PLH})		200	500	ns	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $V_{\text{IH}} \geq 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} \geq 0.3 \times V_{\text{DD}}$
Propagation Delay, High-to-Low, SENSEv to RESET ¹ / $\overline{\text{RESET}}$ (t_{PHL})		1	5	μs	$V_{\text{IH}} = V_{\text{IT+}} + 0.3 \text{ V}$, $V_{\text{IL}} = V_{\text{IT-}} - 0.3 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$
Propagation Delay, Low-to-High, SENSEv to RESET/ $\overline{\text{RESET}}$ ¹ (t_{PLH})		1	5	μs	$V_{\text{IH}} = V_{\text{IT+}} + 0.3 \text{ V}$, $V_{\text{IL}} = V_{\text{IT-}} - 0.3 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$

¹ The reset timeout delay of 200 ms masks the propagation delay.

Table 6. ADM13305-4 and ADM13305-5

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
Watchdog Timeout ($t_{\text{t(OUT)}}$)	1.1	1.6	2.3	sec	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$
Delay Time (t_d)	140	200	280	ms	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$
Propagation Delay, High-to-Low, $\overline{\text{MR}}$ to RESET ¹ / $\overline{\text{RESET}}$ (t_{PHL})		200	500	ns	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $V_{\text{IH}} \geq 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} \geq 0.3 \times V_{\text{DD}}$
Propagation Delay, Low-to-High, $\overline{\text{MR}}$ to RESET/ $\overline{\text{RESET}}$ ¹ (t_{PLH})		200	500	ns	$V_{\text{I(SENSEv)}} \geq V_{\text{IT+}} + 0.2 \text{ V}$, $V_{\text{IH}} \geq 0.7 \times V_{\text{DD}}$, $V_{\text{IL}} \geq 0.3 \times V_{\text{DD}}$
Propagation Delay, High-to-Low, SENSEv to RESET ¹ / $\overline{\text{RESET}}$ (t_{PHL})		30		μs	$V_{\text{IH}} = V_{\text{IT+}} + 0.3 \text{ V}$, $V_{\text{IL}} = V_{\text{IT-}} - 0.3 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$
Propagation Delay, Low-to-High, SENSEv to RESET/ $\overline{\text{RESET}}$ ¹ (t_{PLH})		30		μs	$V_{\text{IH}} = V_{\text{IT+}} + 0.3 \text{ V}$, $V_{\text{IL}} = V_{\text{IT-}} - 0.3 \text{ V}$, $\overline{\text{MR}} \geq 0.7 \times V_{\text{DD}}$

¹ The reset timeout delay of 200 ms masks the propagation delay.

FUNCTIONAL TRUTH TABLE

Table 7.

MR	SENSE1 > V_{IT1}	SENSE2 > V_{IT2}	$\overline{\text{RESET}}$	RESET
L	X ¹	X ¹	L	H
H	0	0	L	H
H	0	1	L	H
H	1	0	L	H
H	1	1	H	L

¹ X = don't care.

ABSOLUTE MAXIMUM RATINGS

Table 8.

Parameter	Rating
Supply Voltage Range, V_{DD}	–0.3 V to +6 V
$\overline{MR}$, $\overline{WDI}$	–0.3 V to $V_{DD} + 0.3$ V
SENSE1, SENSE2	$(V_{DD} + 0.3 \text{ V})V_{IT}/V_{REF}$
RESET, $\overline{RESET}$	–0.3 V to +6 V
Maximum Low Output Current	5 mA
Maximum High Output Current	–5 mA
Input Clamp Current ($V_I < 0 \text{ V}$, $V_I > V_{DD}$)	± 20 mA
Output Clamp Current ($V_O < 0 \text{ V}$, $V_O > V_{DD}$)	± 20 mA
Operating Temperature Range	–40°C to +85°C
Storage Temperature Range	–65°C to +150°C
Lead Temperature	
Soldering (10 sec)	300°C
Vapor Phase (60 sec)	215°C
Infrared (15 sec)	220°C

Stresses above those listed under Absolute Maximum Ratings may cause permanent damage to the device. This is a stress rating only; functional operation of the device at these or any other conditions above those indicated in the operational section of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

THERMAL RESISTANCE

Table 9.

Package Type	θ_{JA}	Unit
8-Lead SOIC_N (R-8)	206	°C/W

ESD CAUTION



ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

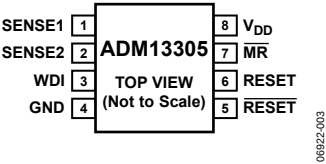


Figure 3. Pin Configuration

Table 10. Pin Function Descriptions

Pin No.	Mnemonic	Description
1	SENSE1	Sense Input Voltage 1.
2	SENSE2	Sense Input Voltage 2.
3	WDI	Watchdog Timer Input.
4	GND	Ground.
5	$\overline{\text{RESET}}$	Active-Low Reset Output.
6	RESET	Active-High Reset Output.
7	MR	Manual Reset Input.
8	V _{DD}	Supply Voltage.

TYPICAL PERFORMANCE CHARACTERISTICS

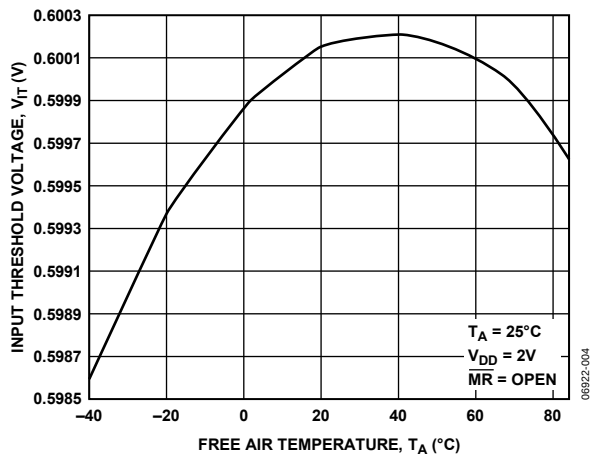


Figure 4. Sense Threshold Voltage vs. Free Air Temperature at V_{DD}

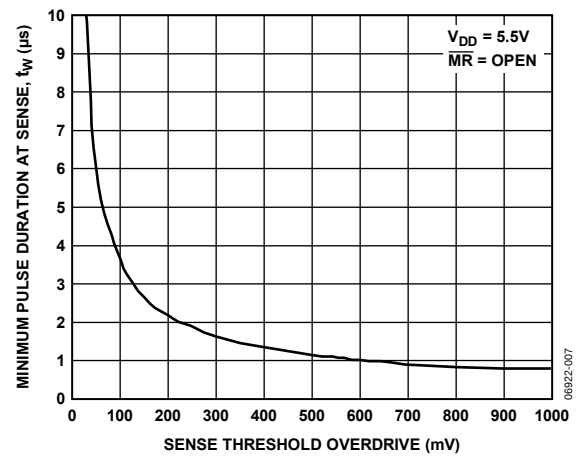


Figure 7. ADM13305-18, ADM13305-25 and ADM13305-33 Minimum Pulse Duration at SENSE vs. Sense Threshold Overdrive

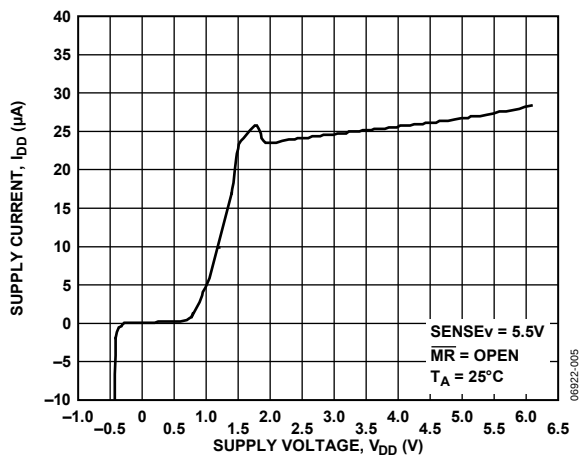


Figure 5. Supply Current vs. Supply Voltage

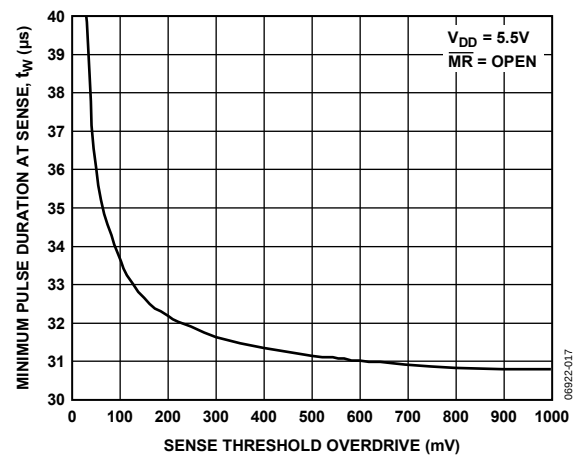


Figure 8. ADM13305-4 and ADM13305-5 Minimum Pulse Duration at SENSE vs. Sense Threshold Overdrive

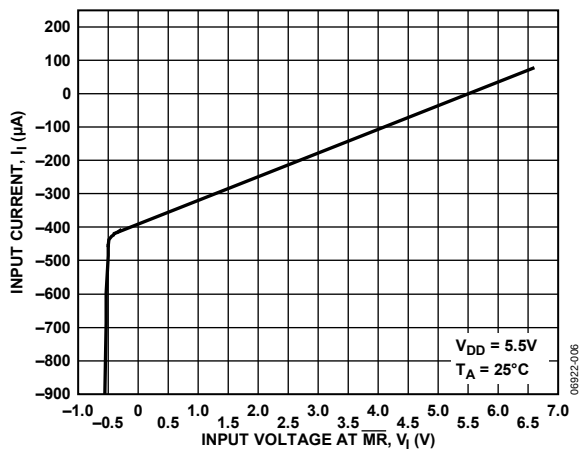


Figure 6. Input Current vs. Input Voltage at $\overline{\text{MR}}$

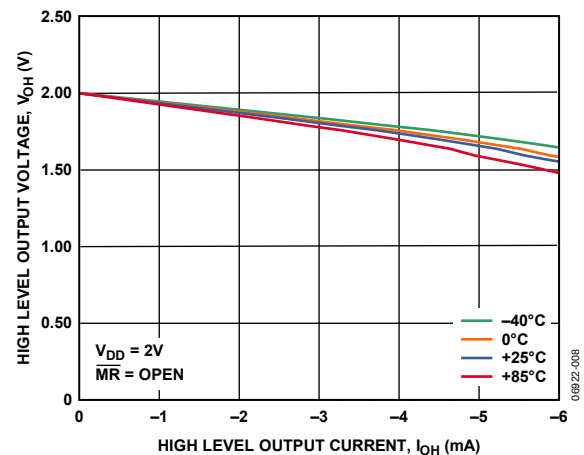


Figure 9. High Level Output Voltage vs. High Level Output Current

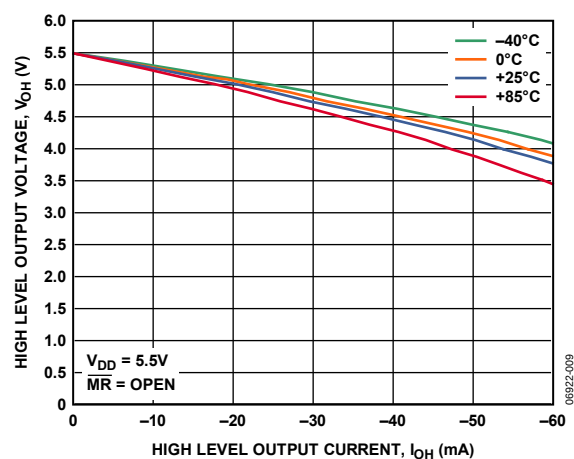


Figure 10. High Level Output Voltage vs. High Level Output Current

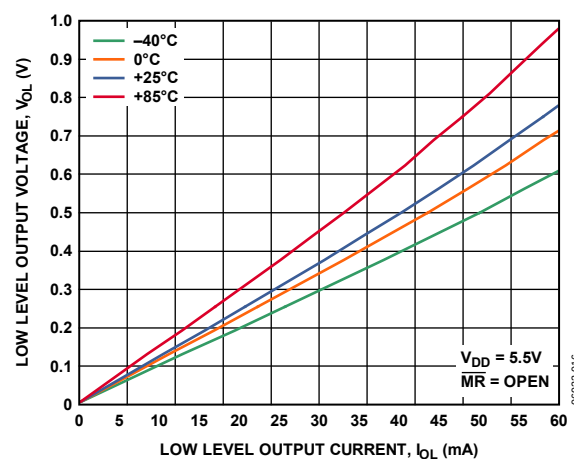


Figure 12. Low Level Output Voltage vs. Low Level Output Current

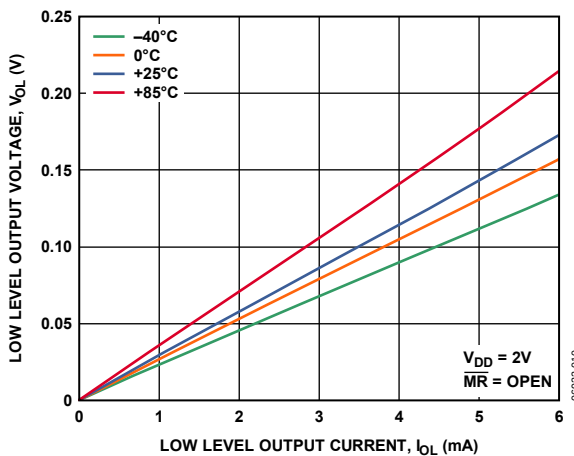


Figure 11. Low Level Output Voltage vs. Low Level Output Current

THEORY OF OPERATION

The ADM13305 is a dual voltage supervisor designed to monitor two supplies and provide a reset signal to DSP and microprocessor-based systems.

There are five models available, all of which feature a combination of internally pretrimmed undervoltage threshold options for monitoring 1.8 V, 2.5 V, 3.3 V, and 5 V supplies. There is also an adjustable input option with an undervoltage threshold of 0.6 V.

The ADM13305-18, ADM13305-25, and ADM13305-33 have two internally fixed thresholds, while the ADM13305-4 and ADM13305-5 offer one internally fixed threshold and one externally programmable threshold via a resistor string. See the Ordering Guide for a list of all available options.

INPUT CONFIGURATION

The ADM13305 is powered through V_{DD} . To increase noise immunity in noisy applications, place a 0.1 μ F capacitor between the V_{DD} input and ground.

The SENSEv inputs are resistant to short power supply glitches. Do not allow an unused SENSEv input to float or to be grounded, instead connect it to a supply voltage greater than its specified threshold voltage.

Typically, the threshold voltage at each adjustable SENSEv input is 0.6 V. To monitor a voltage greater than 0.6 V, connect a resistor divider network to the device as depicted in Figure 13, where,

$$V_{MONITERED} = 0.6 V \left(\frac{R1 + R2}{R2} \right)$$

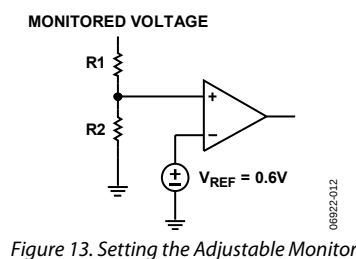


Figure 13. Setting the Adjustable Monitor

RESET OUTPUT

The reset outputs are guaranteed to be in the correct state for V_{DD} down to 1.1 V. During power-up, $\overline{\text{RESET}}$ is asserted when the supply voltage becomes greater than 1.1 V.

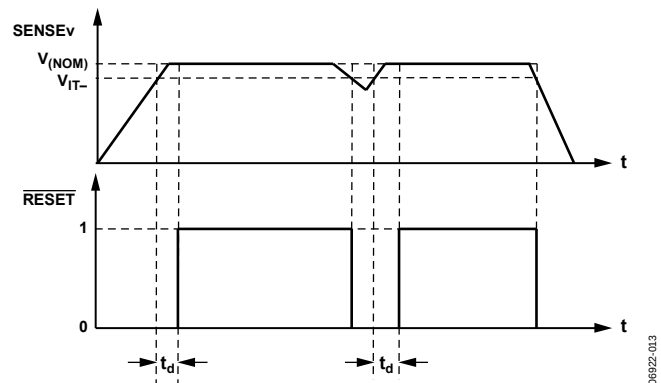


Figure 14. Reset Timing Diagram

Once the supplies monitored at the SENSEv pins rise above their associated threshold level, the $\overline{\text{RESET}}$ signal remains low for the reset timeout period before deasserting. Subsequently, if either of the supplies monitored by the SENSEv pins falls below its associated threshold the $\overline{\text{RESET}}$ output reasserts.

The ADM13305 features both an active-low, push-pull $\overline{\text{RESET}}$ output and an active-high, push-pull RESET output.

WATCHDOG TIMER

The ADM13305 features a watchdog timer that monitors microprocessor activity. A timer circuit is cleared with every low-to-high or high-to-low logic transition on the watchdog input pin (WDI). If the timer counts through the preset watchdog timeout period of 1.6 sec, $\overline{\text{RESET}}$ is asserted, as shown in Figure 15.

The microprocessor is required to toggle the WDI pin to avoid being reset. Therefore, failure of the microprocessor to toggle WDI within the timeout period indicates a code execution error and the reset pulse generated restarts the microprocessor in a known state. The watchdog timer can be disabled by leaving WDI floating.

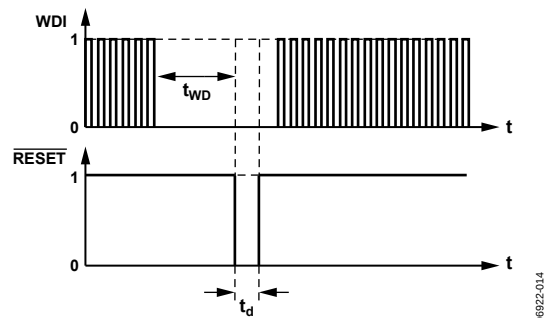


Figure 15. Watchdog Timing Diagram

MANUAL RESET ($\overline{\text{MR}}$)

The ADM13305 features a manual reset input, which when driven low, asserts the reset output, as shown in Figure 16. When $\overline{\text{MR}}$ transitions from low to high, reset remains asserted for the duration of the reset active timeout period before deasserting. An external push-button switch can be connected between $\overline{\text{MR}}$ and ground to allow the user to generate a reset.

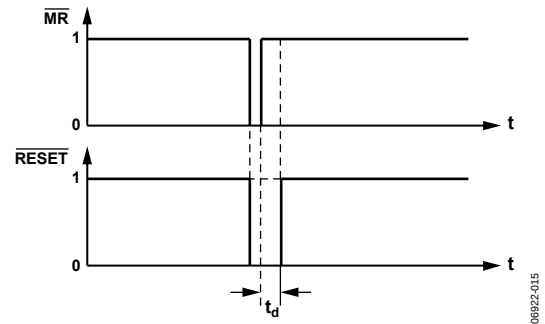
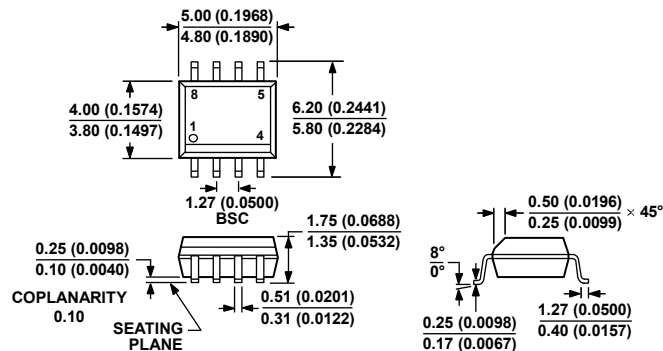


Figure 16. Manual Reset Timing Diagram

OUTLINE DIMENSIONS



COMPLIANT TO JEDEC STANDARDS MS-012-AA
CONTROLLING DIMENSIONS ARE IN MILLIMETERS; INCH DIMENSIONS
(IN PARENTHESES) ARE ROUNDED-OFF MILLIMETER EQUIVALENTS FOR
REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN.

Figure 17. 8-Lead Standard Small Outline Package [SOIC_N]
Narrow Body
(R-8)

Dimensions shown in millimeters and (inches)

ORDERING GUIDE

Model	Nominal Supervised Voltage		Threshold Voltage (Typical)		Temperature Range	Package Description	Package Option
	SENSE1	SENSE2	SENSE1	SENSE2			
ADM13305-18ARZ ¹	3.3 V	1.8 V	2.93 V	1.68 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-18ARZ-RL7 ¹	3.3 V	1.8 V	2.93 V	1.68 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-25ARZ ¹	3.3 V	2.5 V	2.93 V	2.25 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-25ARZ-RL7 ¹	3.3 V	2.5 V	2.93 V	2.25 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-33ARZ ¹	5 V	3.3 V	4.55 V	2.93 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-33ARZ-RL7 ¹	5 V	3.3 V	4.55 V	2.93 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-4ARZ ¹	3.3 V	Adjustable ²	2.93 V	0.6 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-4ARZ-RL7 ¹	3.3 V	Adjustable ²	2.93 V	0.6 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-5ARZ ¹	2.5 V	Adjustable ²	2.25 V	0.6 V	-40°C to +85°C	8-Lead SOIC_N	R-8
ADM13305-5ARZ-RL7 ¹	2.5 V	Adjustable ²	2.25 V	0.6 V	-40°C to +85°C	8-Lead SOIC_N	R-8

¹ Z = RoHS Compliant Part.

² 0.6 V adjustable. External resistor divider determines the actual sense voltage.