

## FEATURES

Specified over temperature  
 Low power consumption (12  $\mu$ A)  
 Precision monitoring of 2.5 V, 3 V, 3.3 V,  
 and 5 V power supply voltages  
 Reset timeout period of 140 ms (minimum)  
 Manual reset input  
 Output stages  
     Push-pull  $\overline{\text{RESET}}$  output (ADM6711)  
     Open-drain  $\overline{\text{RESET}}$  output (ADM6713)  
 Reset assertion down to 1 V  $V_{CC}$   
 Power supply glitch immunity  
 4-lead SC70 package

## APPLICATIONS

Microprocessor systems  
 Computers  
 Controllers  
 Intelligent instruments  
 Automotive systems

## GENERAL DESCRIPTION

The **ADM6711/ADM6713** are reset generator circuits suitable for use in microprocessor-based systems. They provide a reset signal on power-up, power-down, and whenever the supply voltage falls below a preset threshold. In addition, both parts have a debounced manual reset input so that a reset signal can also be initiated with an external switch or logic signal.

With six different reset threshold options available ranging from 2.32 V to 4.63 V, the **ADM6711/ADM6713** are suitable for monitoring 2.5 V, 3 V, 3.3 V, and 5 V supplies. A reset timeout of at least 140 ms occurs when  $V_{CC}$  rises above the threshold. This gives the supply voltage time to stabilize before the microprocessor starts up.

The **ADM6711** has a push-pull output, so no additional external components are needed. The **ADM6713** open-drain output requires an external pull-up resistor that can be connected to a voltage higher than  $V_{CC}$ , if desired.

## FUNCTIONAL BLOCK DIAGRAMS

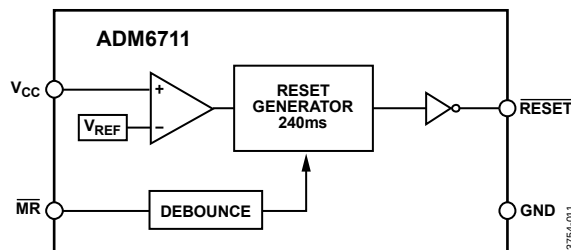


Figure 1.

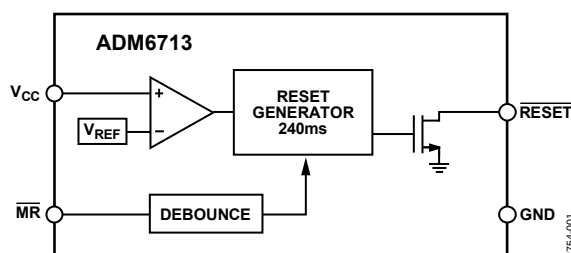


Figure 2.

The parts are highly reliable with accurate voltage references and immunity to fast, negative-going transients on  $V_{CC}$ . Low current consumption and space-efficient, 4-lead SC70 packaging make the **ADM6711/ADM6713** ideal for use in low power portable applications.

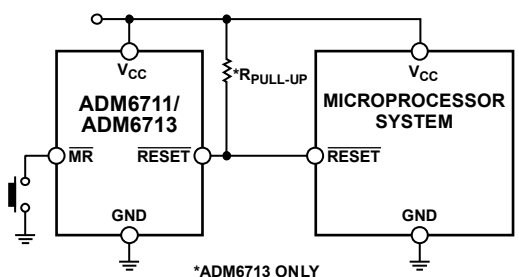


Figure 3. Typical Operating Circuit

## Rev. B

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## TABLE OF CONTENTS

|                                                   |   |                                                                                       |   |
|---------------------------------------------------|---|---------------------------------------------------------------------------------------|---|
| Features .....                                    | 1 | Typical Performance Characteristics .....                                             | 7 |
| Applications .....                                | 1 | Circuit Description .....                                                             | 8 |
| Functional Block Diagrams .....                   | 1 | Manual Reset Input .....                                                              | 8 |
| General Description .....                         | 1 | Power Supply Glitch Immunity .....                                                    | 8 |
| Revision History .....                            | 2 | ADM6713 $\overline{\text{RESET}}$ Output Logic Levels .....                           | 8 |
| Specifications .....                              | 3 | Ensuring a Valid $\overline{\text{RESET}}$ Output Down To $V_{CC} = 0\text{ V}$ ..... | 8 |
| Absolute Maximum Ratings .....                    | 5 | Outline Dimensions .....                                                              | 9 |
| ESD Caution .....                                 | 5 | Ordering Guide .....                                                                  | 9 |
| Pin Configuration and Function Descriptions ..... | 6 |                                                                                       |   |

## REVISION HISTORY

### 9/11—Rev. A to Rev. B

|                                                     |   |
|-----------------------------------------------------|---|
| Changes to Input Threshold Parameter, Table 1 ..... | 4 |
| Updated Outline Dimensions .....                    | 9 |

### 12/06—Rev. 0 to Rev. A

|                                       |           |
|---------------------------------------|-----------|
| Updated Format .....                  | Universal |
| Changes to Specifications Table ..... | 3         |
| Changes to Figure 10 .....            | 8         |
| Changes to Ordering Guide .....       | 9         |

### 8/03—Revision 0: Initial Version

## SPECIFICATIONS

$V_{CC}$  = full operating range;  $T_A = T_{MIN}$  to  $T_{MAX}$ ;  $V_{CC}$  typ = 5 V for L/M models, 3.3 V for T/S models, 3 V for R models, and 2.5 V for Z models, unless otherwise noted.

Table 1.

| Parameter                               | Min          | Typ  | Max  | Unit                  | Test Conditions/Comments                                                                      |
|-----------------------------------------|--------------|------|------|-----------------------|-----------------------------------------------------------------------------------------------|
| SUPPLY                                  |              |      |      |                       |                                                                                               |
| $V_{CC}$ Operating Voltage Range        | 1.0          |      | 5.5  | V                     | $T_A = 0^\circ\text{C}$ to $70^\circ\text{C}$                                                 |
|                                         | 1.2          |      | 5.5  | V                     | $T_A = -40^\circ\text{C}$ to $+125^\circ\text{C}$                                             |
| Supply Current                          |              | 16   | 35   | $\mu\text{A}$         | $V_{CC} < 5.5\text{ V}$ , ADM671_L/M,<br>$T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$     |
|                                         |              | 12   | 30   | $\mu\text{A}$         | $V_{CC} < 3.6\text{ V}$ , ADM671_R/S/T/Z,<br>$T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$ |
|                                         |              |      | 60   | $\mu\text{A}$         | $V_{CC} < 5.5\text{ V}$ , ADM671_L/M,<br>$T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$      |
|                                         |              |      | 60   | $\mu\text{A}$         | $V_{CC} < 3.6\text{ V}$ , ADM671_R/S/T/Z,<br>$T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$  |
| RESET VOLTAGE THRESHOLD                 |              |      |      |                       |                                                                                               |
| ADM671_L                                | 4.56         | 4.63 | 4.70 | V                     | $T_A = 25^\circ\text{C}$                                                                      |
|                                         | 4.50         |      | 4.75 | V                     | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 4.44         |      | 4.82 | V                     | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| ADM671_M                                | 4.31         | 4.38 | 4.45 | V                     | $T_A = 25^\circ\text{C}$                                                                      |
|                                         | 4.25         |      | 4.50 | V                     | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 4.20         |      | 4.56 | V                     | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| ADM671_T                                | 3.04         | 3.08 | 3.11 | V                     | $T_A = 25^\circ\text{C}$                                                                      |
|                                         | 3.00         |      | 3.15 | V                     | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 2.95         |      | 3.21 | V                     | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| ADM671_S                                | 2.89         | 2.93 | 2.96 | V                     | $T_A = 25^\circ\text{C}$                                                                      |
|                                         | 2.85         |      | 3.00 | V                     | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 2.81         |      | 3.05 | V                     | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| ADM671_R                                | 2.59         | 2.63 | 2.66 | V                     | $T_A = 25^\circ\text{C}$                                                                      |
|                                         | 2.55         |      | 2.70 | V                     | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 2.52         |      | 2.74 | V                     | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| ADM671_Z                                | 2.28         | 2.32 | 2.35 | V                     | $T_A = 25^\circ\text{C}$                                                                      |
|                                         | 2.25         |      | 2.38 | V                     | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 2.22         |      | 2.42 | V                     | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| RESET THRESHOLD TEMPERATURE COEFFICIENT |              | 30   |      | ppm/ $^\circ\text{C}$ |                                                                                               |
| $V_{CC}$ to RESET DELAY                 |              | 20   |      | $\mu\text{s}$         | $V_{CC} = V_{TH}$ to $(V_{TH} - 100\text{ mV})$                                               |
| RESET ACTIVE TIMEOUT PERIOD             | 140          | 240  | 460  | ms                    | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$                                              |
|                                         | 100          |      | 640  | ms                    | $T_A = 85^\circ\text{C}$ to $125^\circ\text{C}$                                               |
| RESET OUTPUT VOLTAGE                    |              |      |      |                       |                                                                                               |
| Low (ADM6711/ADM6713)                   |              |      | 0.3  | V                     | $V_{CC} = V_{TH}\text{ min}$ , $I_{SINK} = 1.2\text{ mA}$ ,<br>ADM671_R/S/T/Z                 |
|                                         |              |      | 0.4  | V                     | $V_{CC} = V_{TH}\text{ min}$ , $I_{SINK} = 3.2\text{ mA}$ ,<br>ADM671_L/M                     |
|                                         |              |      | 0.3  | V                     | $V_{CC} > 1.0\text{ V}$ , $I_{SINK} = 50\text{ }\mu\text{A}$                                  |
| High (ADM6711)                          | $0.8 V_{CC}$ |      |      | V                     | $V_{CC} > V_{TH}\text{ max}$ , $I_{SOURCE} = 500\text{ }\mu\text{A}$ ,<br>ADM6711R/S/T/Z      |
|                                         | $0.8 V_{CC}$ |      |      | V                     | $V_{CC} > V_{TH}\text{ max}$ , $I_{SOURCE} = 800\text{ }\mu\text{A}$ ,<br>ADM6711L/M          |

| Parameter                               | Min          | Typ | Max          | Unit          | Test Conditions/Comments             |
|-----------------------------------------|--------------|-----|--------------|---------------|--------------------------------------|
| RESET OPEN-DRAIN OUTPUT LEAKAGE CURRENT |              |     | 1            | $\mu\text{A}$ | $V_{CC} > V_{TH}$ , RESET deasserted |
| MANUAL RESET (MR)                       |              |     |              |               |                                      |
| Input Threshold                         |              |     | $0.3 V_{CC}$ | V             | $V_{IL}$                             |
|                                         | $0.7 V_{CC}$ |     |              | V             | $V_{IH}$                             |
| Pull-Up Resistance                      | 10           | 20  |              | $k\Omega$     |                                      |
| Minimum Pulse width                     | 1            |     |              | $\mu\text{s}$ |                                      |
| Glitch Immunity                         |              | 100 |              | ns            |                                      |
| Reset Delay                             |              | 200 |              | ns            |                                      |

## ABSOLUTE MAXIMUM RATINGS

$T_A = 25^\circ\text{C}$ , unless otherwise noted.

Table 2.

| Parameter                                          | Rating                        |
|----------------------------------------------------|-------------------------------|
| $V_{CC}$                                           | –0.3 V to +6 V                |
| $\overline{\text{RESET}}$ (Push-Pull)              | –0.3 V to ( $V_{CC} + 0.3$ V) |
| $\overline{\text{RESET}}$ (Open-Drain)             | –0.3 V to +6 V                |
| $\overline{\text{MR}}$                             | –0.3 V to ( $V_{CC} + 0.3$ V) |
| Input Current<br>$V_{CC}$ , $\overline{\text{MR}}$ | 20 mA                         |
| Output Current<br>$\overline{\text{RESET}}$        | 20 mA                         |
| Rate of Rise, $V_{CC}$                             | 100 V/ $\mu\text{s}$          |
| $\theta_{JA}$ Thermal Impedance, SC70              | 146°C/W                       |
| Operating Temperature Range                        | –40°C to +125°C               |
| Storage Temperature Range                          | –65°C to +150°C               |
| Lead Temperature (Soldering, 10 sec)               | 300°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.

Table 3.  $\overline{\text{RESET}}$  Threshold Options

| Model    | $\overline{\text{RESET}}$ Threshold (V) |
|----------|-----------------------------------------|
| ADM671_L | 4.63                                    |
| ADM671_M | 4.38                                    |
| ADM671_T | 3.08                                    |
| ADM671_S | 2.93                                    |
| ADM671_R | 2.63                                    |
| ADM671_Z | 2.32                                    |

### 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

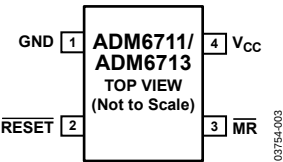


Figure 4. Pin Configuration

Table 4. Pin Function Descriptions

| Pin No. | Mnemonic | Description                                                                                                                                                                      |
|---------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | GND      | Ground Reference for All Signals (0 V).                                                                                                                                          |
| 2       | RESET    | Active Low Logic Input. RESET remains low while VCC is below the reset threshold and remains low for 240 ms (typical) after VCC rises above the reset threshold.                 |
| 3       | MR       | Manual Reset. This active low debounced input ignores input pulses of 100 ns (typical) and is guaranteed to accept input pulses greater than 1 μs. Leave floating when not used. |
| 4       | VCC      | Supply Voltage Being Monitored.                                                                                                                                                  |

## TYPICAL PERFORMANCE CHARACTERISTICS

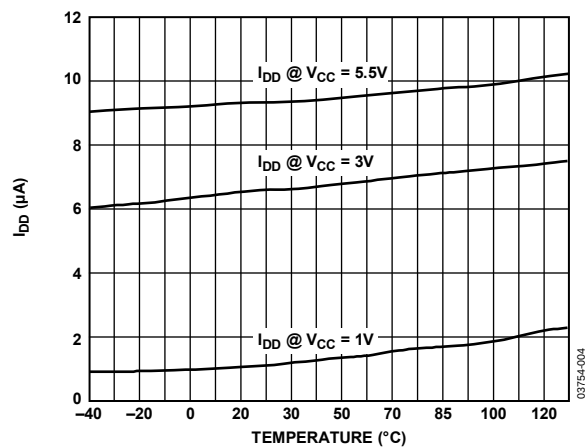
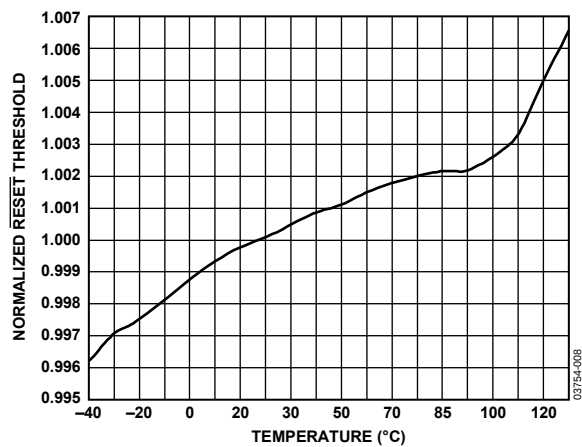
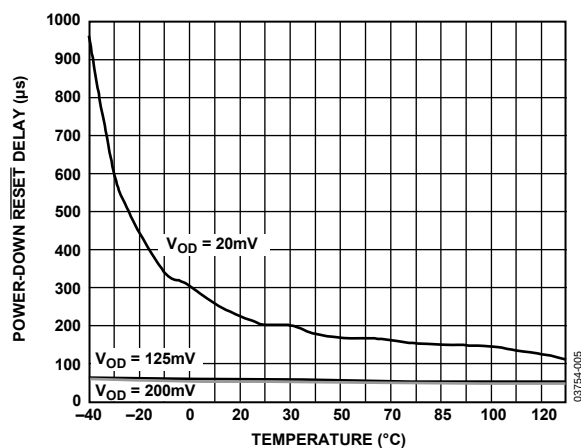
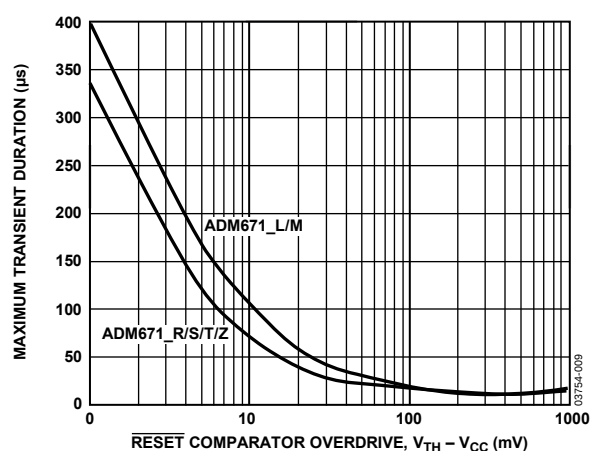
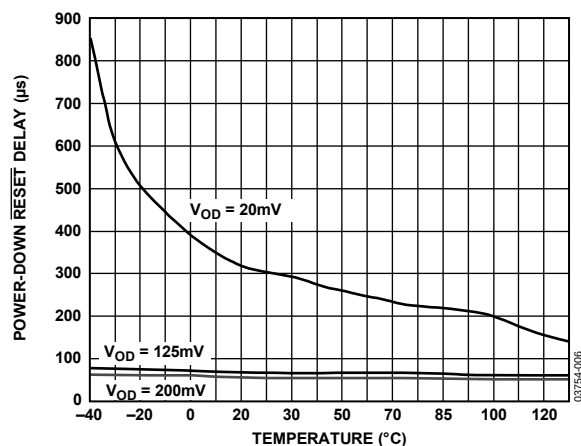


Figure 5. Supply Current vs. Temperature

Figure 8.  $\overline{RESET}$  Threshold Deviation vs. TemperatureFigure 6. Power-Down  $\overline{RESET}$  Delay vs. Temperature: ADM671\_R/ADM671\_S/ADM671\_T/ADM671\_ZFigure 9. Maximum Transient Duration (Without Causing a  $\overline{RESET}$  Pulse) vs.  $\overline{RESET}$  Comparator OverdriveFigure 7. Power-Down  $\overline{RESET}$  Delay vs. Temperature: ADM671\_L/ADM671\_M

## CIRCUIT DESCRIPTION

The ADM6711/ADM6713 are designed to protect the integrity of a system's operation by ensuring the proper operation of the system during power-up, power-down, and brownout conditions.

When the ADM6711/ADM6713 are powered up, the  $\overline{\text{RESET}}$  output remains low for a period equal to the typical reset active timeout period. This is designed to give the system time to power up correctly and for the power supply to stabilize before any devices are brought out of reset and allowed to begin executing instructions. Initializing a system in this way provides a more reliable startup for microprocessor systems.

### MANUAL RESET INPUT

The ADM6711/ADM6713 manual reset ( $\overline{\text{MR}}$ ) input allows the system operator to reset a system by means of an external manual switch. Alternatively, a logic signal from another digital circuit can be used to trigger a reset via the  $\overline{\text{MR}}$  input.

The  $\overline{\text{MR}}$  input ignores negative-going pulses faster than 100 ns (typical) and is guaranteed to accept any negative-going input pulse of a duration greater than or equal to 1  $\mu\text{s}$ . The  $\overline{\text{RESET}}$  output remains low while  $\overline{\text{MR}}$  is held low and for 240 ms (typical) after  $\overline{\text{MR}}$  returns high.

If  $\overline{\text{MR}}$  is connected to long cables or is used in a noisy environment, then placing a 0.1  $\mu\text{F}$  capacitor between the  $\overline{\text{MR}}$  input and ground helps to remove any fast, negative-going transients.

### POWER SUPPLY GLITCH IMMUNITY

The ADM6711/ADM6713 contain internal filtering circuitry that provides immunity to fast transient glitches on the power supply line. Figure 9 illustrates glitch immunity performance by showing the maximum transient duration without causing a reset pulse for glitches with amplitudes in the range of 1 mV to 1000 mV.

Glitch immunity makes the ADM6711/ADM6713 suitable for use in noisy environments. Mounting a 0.1  $\mu\text{F}$  decoupling capacitor as close as possible to the  $V_{\text{CC}}$  pin improves glitch immunity further.

### ADM6713 $\overline{\text{RESET}}$ OUTPUT LOGIC LEVELS

The ADM6713 open-drain  $\overline{\text{RESET}}$  output is designed for use with an external pull-up resistor. This resistor can be tied to  $V_{\text{CC}}$  or any other reasonable voltage level, offering the flexibility to use the ADM6713 to drive a variety of different logic level circuitry.

### ENSURING A VALID $\overline{\text{RESET}}$ OUTPUT DOWN TO $V_{\text{CC}} = 0 \text{ V}$

When  $V_{\text{CC}}$  falls below 0.8 V, the ADM6711/ADM6713  $\overline{\text{RESET}}$  output no longer sinks current, and a high impedance CMOS logic input connected to  $\overline{\text{RESET}}$  may drift to undetermined logic levels. To eliminate this problem, a pull-down resistor is connected from  $\overline{\text{RESET}}$  to ground. A 100 k $\Omega$  resistor is large enough not to load  $\overline{\text{RESET}}$  and small enough to pull  $\overline{\text{RESET}}$  to ground.

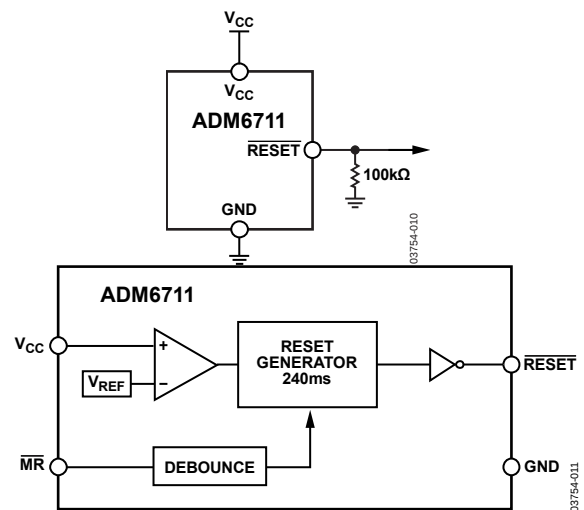
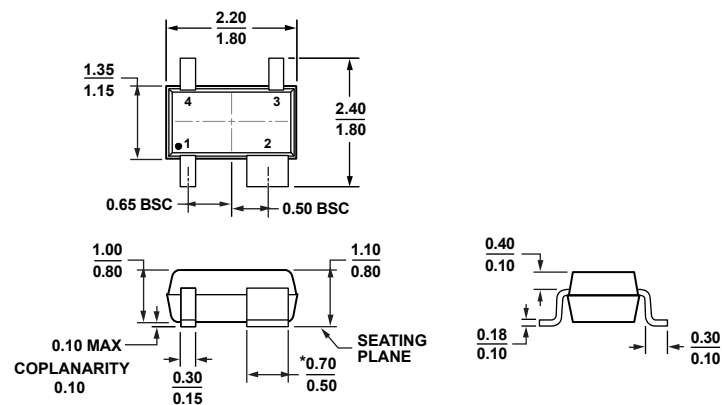


Figure 10. Ensuring a Valid  $\overline{\text{RESET}}$  Output Down to  $V_{\text{CC}} = 0 \text{ V}$

## OUTLINE DIMENSIONS



\*PACKAGE OUTLINE CORRESPONDS IN FULL TO EIAJ SC82  
EXCEPT FOR WIDTH OF PIN 2 AS SHOWN.

Figure 11. 4-Lead Thin Shrink Small Outline Transistor Package [SC70]  
(KS-4)

Dimensions shown in millimeters

072803-A

## ORDERING GUIDE

| Model <sup>1</sup> | RESET<br>Threshold (V) | Temperature<br>Range | Package<br>Description | Package<br>Option | Ordering<br>Quantity (k) | Branding |
|--------------------|------------------------|----------------------|------------------------|-------------------|--------------------------|----------|
| ADM6711LAKS-REEL   | 4.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0B      |
| ADM6711LAKSZ-REEL  | 4.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M4U      |
| ADM6711LAKSZ-REEL7 | 4.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M4U      |
| ADM6711MAKS-REEL   | 4.38                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0C      |
| ADM6711MAKS-REEL7  | 4.38                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0C      |
| ADM6711MAKSZ-REEL7 | 4.38                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M86      |
| ADM6711TAKS-REEL   | 3.08                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0D      |
| ADM6711TAKSZ-REEL  | 3.08                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M4A      |
| ADM6711TAKS-REEL7  | 3.08                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0D      |
| ADM6711TAKSZ-REEL7 | 3.08                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M4A      |
| ADM6711SAKS-REEL   | 2.93                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0E      |
| ADM6711SAKSZ-REEL  | 2.93                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M4B      |
| ADM6711SAKS-REEL7  | 2.93                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0E      |
| ADM6711SAKSZ-REEL7 | 2.93                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M4B      |
| ADM6711RAKS-REEL   | 2.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0F      |
| ADM6711RAKSZ-REEL  | 2.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M5F      |
| ADM6711RAKS-REEL7  | 2.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0F      |
| ADM6711RAKSZ-REEL7 | 2.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M5F      |
| ADM6711ZAKS-REEL   | 2.32                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0G      |
| ADM6711ZAKSZ-REEL  | 2.32                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M4H      |
| ADM6711ZAKS-REEL7  | 2.32                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0G      |
| ADM6711ZAKSZ-REEL7 | 2.32                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M4H      |
| ADM6713LAKS-REEL   | 4.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0H      |
| ADM6713LAKSZ-REEL  | 4.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M87      |
| ADM6713LAKSZ-REEL7 | 4.63                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M87      |
| ADM6713MAKS-REEL   | 4.38                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0J      |
| ADM6713MAKS-REEL7  | 4.38                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0J      |
| ADM6713MAKSZ-REEL7 | 4.38                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M88      |
| ADM6713TAKS-REEL   | 3.08                   | -40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0K      |

| Model <sup>1</sup> | RESET<br>Threshold (V) | Temperature<br>Range | Package<br>Description | Package<br>Option | Ordering<br>Quantity (k) | Branding |
|--------------------|------------------------|----------------------|------------------------|-------------------|--------------------------|----------|
| ADM6713TAKS-REEL7  | 3.08                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0K      |
| ADM6713TAKSZ-REEL7 | 3.08                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M89      |
| ADM6713SAKS-REEL   | 2.93                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0L      |
| ADM6713SAKSZ-REEL  | 2.93                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M57      |
| ADM6713SAKS-REEL7  | 2.93                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0L      |
| ADM6713SAKSZ-REEL7 | 2.93                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M57      |
| ADM6713RAKS-REEL   | 2.63                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0M      |
| ADM6713RAKSZ-REEL  | 2.63                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M4S      |
| ADM6713RAKS-REEL7  | 2.63                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0M      |
| ADM6713RAKSZ-REEL7 | 2.63                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M4S      |
| ADM6713ZAKS-REEL   | 2.32                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M0N      |
| ADM6713ZAKSZ-REEL  | 2.32                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 10                       | M4R      |
| ADM6713ZAKS-REEL7  | 2.32                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M0N      |
| ADM6713ZAKSZ-REEL7 | 2.32                   | –40°C to +125°C      | 4-Lead SC70            | KS-4              | 3                        | M4R      |

<sup>1</sup> Z = RoHS Compliant Part.

## NOTES

**NOTES**

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