

# MAX6832–MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu P$ Reset Circuits

### ABSOLUTE MAXIMUM RATINGS

Terminal Voltage (with respect to GND)

$V_{CC}$  ..... -0.3V to +6.0V

Open-Drain  $\overline{\text{RESET}}$ ,  $\overline{\text{MR}}$  ..... -0.3V to +6.0V

RESET-IN, Push-Pull  $\overline{\text{RESET}}$

and RESET ..... -0.3V to ( $V_{CC} + 0.3V$ )

Input/Output Current (all pins) ..... 20mA

Continuous Power Dissipation ( $T_A = +70^\circ\text{C}$ )

3-Pin SC70 (derate 2.9mW/ $^\circ\text{C}$  above  $+70^\circ\text{C}$ ) ..... 235mW

4-Pin SC70 (derate 3.1mW/ $^\circ\text{C}$  above  $+70^\circ\text{C}$ ) ..... 245mW

Operating Temperature Range .....  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$

Junction Temperature .....  $+150^\circ\text{C}$

Storage Temperature Range .....  $-65^\circ\text{C}$  to  $+150^\circ\text{C}$

Lead Temperature (soldering, 10s) .....  $+300^\circ\text{C}$

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

### ELECTRICAL CHARACTERISTICS

( $V_{CC} = +0.55V$  to  $+3.6V$ ,  $T_A = T_{MIN}$  to  $T_{MAX}$ , unless otherwise noted. Typical values are at  $T_A = +25^\circ\text{C}$ .) (Note 1)

| PARAMETER                           | SYMBOL      | CONDITIONS                                                                                             | MIN   | TYP   | MAX   | UNITS      |
|-------------------------------------|-------------|--------------------------------------------------------------------------------------------------------|-------|-------|-------|------------|
| Supply Voltage Range                | $V_{CC}$    | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$<br>MAX6832/MAX6835/MAX6838<br>MAX6834/MAX6837/MAX6840 | 0.55  |       | 3.6   | V          |
|                                     |             | $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$<br>MAX6833/MAX6836/MAX6839                            | 0.85  |       | 3.6   |            |
|                                     |             | $T_A = 0^\circ\text{C}$ to $+85^\circ\text{C}$<br>MAX6833/MAX6836/MAX6839                              | 0.75  |       | 3.6   |            |
| Supply Current                      | $I_{CC}$    | $V_{CC} = 1.2V$ , no load, reset not asserted                                                          |       | 7.5   | 13    | $\mu A$    |
|                                     |             | $V_{CC} = 1.8V$ , no load, reset not asserted                                                          |       | 9     | 16    |            |
|                                     |             | $V_{CC} = 3.6V$ , no load, reset not asserted                                                          |       | 16    | 25    |            |
| Reset Threshold                     | $V_{TH}$    | W                                                                                                      | 1.620 | 1.665 | 1.710 | V          |
|                                     |             | V                                                                                                      | 1.530 | 1.575 | 1.620 |            |
|                                     |             | I                                                                                                      | 1.350 | 1.388 | 1.425 |            |
|                                     |             | H                                                                                                      | 1.275 | 1.313 | 1.350 |            |
|                                     |             | G                                                                                                      | 1.080 | 1.110 | 1.140 |            |
|                                     |             | F (Note 2)                                                                                             | 1.020 | 1.050 | 1.080 |            |
| RESET-IN Threshold                  | $V_{RSTIN}$ | $1.1V \leq V_{CC} \leq 3.3V$ , $0^\circ\text{C}$ to $+85^\circ\text{C}$                                | -2.5% | 444   | +2.5% | mV         |
|                                     |             | $1.1V \leq V_{CC} \leq 3.3V$ , $-40^\circ\text{C}$ to $+85^\circ\text{C}$                              | -3.0% | 444   | +3.0% |            |
| RESET-IN Leakage Current            | $I_{RSTIN}$ |                                                                                                        | -25   |       | +25   | nA         |
| Reset Threshold Hysteresis          | $V_{HYS}$   |                                                                                                        |       | 0.75  |       | % $V_{TH}$ |
| $V_{CC}$ or RESET-IN to Reset Delay |             | $V_{CC}$ falling, step signal from ( $V_{TH} + 100mV$ ) to ( $V_{TH} - 100mV$ )                        |       | 60    |       | $\mu s$    |
| Reset Active Timeout Period         | $t_{RP}$    | D0                                                                                                     |       | 0.07  |       | ms         |
|                                     |             | D1                                                                                                     | 1     | 1.5   | 2     |            |
|                                     |             | D2                                                                                                     | 20    | 30    | 40    |            |
|                                     |             | D3                                                                                                     | 140   | 210   | 280   |            |
|                                     |             | D4                                                                                                     | 1120  | 1680  | 2240  |            |

# MAX6832-MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### ELECTRICAL CHARACTERISTICS (continued)

( $V_{CC} = +0.55V$  to  $+3.6V$ ,  $T_A = T_{MIN}$  to  $T_{MAX}$ , unless otherwise noted. Typical values are at  $T_A = +25^\circ C$ .) (Note 1)

| PARAMETER                                            | SYMBOL           | CONDITIONS                                                                                      | MIN                   | TYP | MAX | UNITS |
|------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------|-----------------------|-----|-----|-------|
| Propagation Delay (D0 only)                          | t <sub>P</sub>   | V <sub>CC</sub> rising, step signal from (V <sub>TH</sub> - 100mV) to (V <sub>TH</sub> + 100mV) |                       | 70  |     | μs    |
| Startup Time (D0 only)                               |                  | V <sub>CC</sub> rising from 0 to 1.1V (t <sub>R</sub> < 1μs)                                    |                       | 150 |     | μs    |
| $\overline{MR}$ Input Voltage                        | V <sub>IL</sub>  |                                                                                                 | 0.3 x V <sub>CC</sub> |     |     | V     |
|                                                      | V <sub>IH</sub>  |                                                                                                 | 0.7 x V <sub>CC</sub> |     |     |       |
| $\overline{MR}$ Minimum Input Pulse Width            |                  | $\overline{MR}$ driven from V <sub>CC</sub> to 0                                                | 2                     |     |     | μs    |
| $\overline{MR}$ Glitch Rejection                     |                  | $\overline{MR}$ driven from V <sub>CC</sub> to 0                                                |                       | 100 |     | ns    |
| $\overline{MR}$ to Reset Delay                       |                  | $\overline{MR}$ driven from V <sub>CC</sub> to 0                                                |                       | 500 |     | ns    |
| $\overline{MR}$ Pullup Resistance To V <sub>CC</sub> |                  |                                                                                                 | 14                    | 20  | 26  | kΩ    |
| Open-Drain $\overline{RESET}$ Output Voltage         | V <sub>OL</sub>  | V <sub>CC</sub> ≥ 0.55V, I <sub>SINK</sub> = 15μA, reset asserted                               | 0.15                  |     |     | V     |
|                                                      |                  | V <sub>CC</sub> ≥ 1.0V, I <sub>SINK</sub> = 80μA, reset asserted                                | 0.15                  |     |     |       |
|                                                      |                  | V <sub>CC</sub> ≥ 1.5V, I <sub>SINK</sub> = 200μA, reset asserted                               | 0.2                   |     |     |       |
| Open-Drain $\overline{RESET}$ Output Leakage Current | I <sub>LKG</sub> | V <sub>CC</sub> > V <sub>TH</sub> , reset not asserted                                          |                       |     | 1.0 | μA    |
| Push-Pull $\overline{RESET}$ Output Voltage          | V <sub>OL</sub>  | V <sub>CC</sub> ≥ 0.55V, I <sub>SINK</sub> = 15μA, reset asserted                               | 0.2 x V <sub>CC</sub> |     |     | V     |
|                                                      |                  | V <sub>CC</sub> ≥ 1.0V, I <sub>SINK</sub> = 80μA, reset asserted                                | 0.2 x V <sub>CC</sub> |     |     |       |
|                                                      |                  | V <sub>CC</sub> ≥ 1.5V, I <sub>SINK</sub> = 200μA, reset asserted                               | 0.2 x V <sub>CC</sub> |     |     |       |
|                                                      | V <sub>OH</sub>  | V <sub>CC</sub> ≥ 1.1V, I <sub>SOURCE</sub> = 50μA, reset not asserted                          | 0.8 x V <sub>CC</sub> |     |     |       |
|                                                      |                  | V <sub>CC</sub> ≥ 1.5V, I <sub>SOURCE</sub> = 150μA, reset asserted                             | 0.8 x V <sub>CC</sub> |     |     |       |
| Push-Pull $\overline{RESET}$ Output Voltage          | V <sub>OH</sub>  | V <sub>CC</sub> ≥ 0.75V, I <sub>SOURCE</sub> = 10μA, reset asserted (Note 2)                    | 0.8 x V <sub>CC</sub> |     |     | V     |
|                                                      |                  | V <sub>CC</sub> ≥ 0.85V, I <sub>SOURCE</sub> = 10μA, reset asserted                             | 0.8 x V <sub>CC</sub> |     |     |       |
|                                                      |                  | V <sub>CC</sub> ≥ 1.0V, I <sub>SOURCE</sub> = 50μA, reset asserted                              | 0.8 x V <sub>CC</sub> |     |     |       |
|                                                      |                  | V <sub>CC</sub> ≥ 1.5V, I <sub>SOURCE</sub> = 150μA, reset asserted                             | 0.8 x V <sub>CC</sub> |     |     |       |
|                                                      | V <sub>OL</sub>  | V <sub>CC</sub> ≥ 1.1V, I <sub>SINK</sub> = 80μA, reset not asserted                            | 0.2 x V <sub>CC</sub> |     |     |       |
|                                                      |                  | V <sub>CC</sub> ≥ 1.5V, I <sub>SINK</sub> = 200μA, reset not asserted                           | 0.2 x V <sub>CC</sub> |     |     |       |

**Note 1:** 100% production tested at  $+25^\circ C$ . Over temperature limits are guaranteed by design.

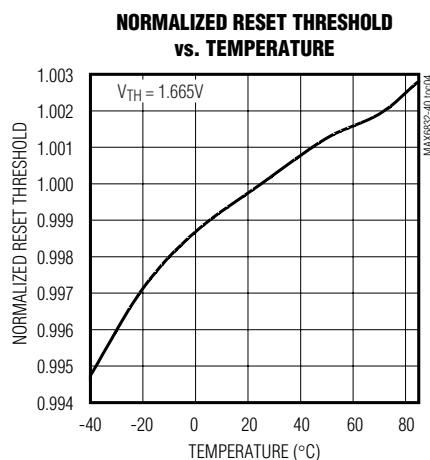
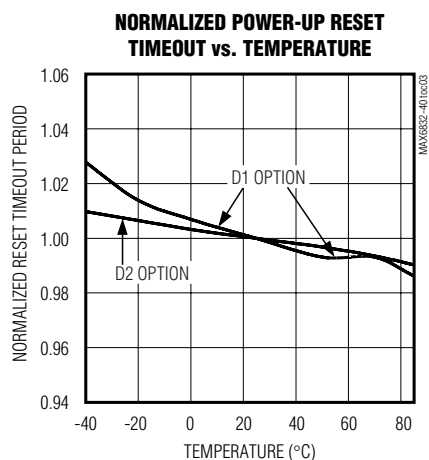
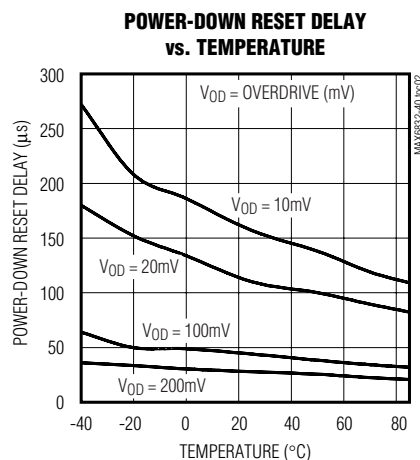
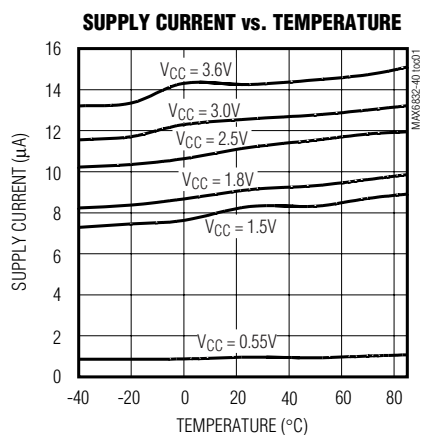
**Note 2:** Temperature range is from  $0^\circ C$  to  $+85^\circ C$ .

# MAX6832-MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu P$ Reset Circuits

### Typical Operating Characteristics

( $V_{CC}$  = full range and  $T_A$  =  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , unless otherwise noted. Typical values are at  $T_A$  =  $+25^{\circ}\text{C}$ ).



# MAX6832–MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### Pin Description—MAX6832–MAX6837

| PIN               |                               |                   |                               | NAME                      | FUNCTION                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|-------------------------------|-------------------|-------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAX6833<br>SC70-3 | MAX6832/<br>MAX6834<br>SC70-3 | MAX6836<br>SC70-4 | MAX6835/<br>MAX6837<br>SC70-4 |                           |                                                                                                                                                                                                                                                                                                                                                                         |
| 1                 | 1                             | 1                 | 1                             | GND                       | Ground                                                                                                                                                                                                                                                                                                                                                                  |
| —                 | 2                             | —                 | 2                             | $\overline{\text{RESET}}$ | Reset Output, Open-Drain or Push-Pull, Active-Low. $\overline{\text{RESET}}$ changes from HIGH to LOW when $V_{CC}$ drops below the selected reset threshold or $\overline{\text{MR}}$ is pulled low. $\overline{\text{RESET}}$ remains LOW for the reset timeout period after $V_{CC}$ exceeds the device reset threshold and $\overline{\text{MR}}$ is released high. |
| 2                 | —                             | 2                 | —                             | RESET                     | Reset Output, Push-Pull, Active-High. RESET changes from LOW to HIGH when the $V_{CC}$ input drops below the selected reset threshold or $\overline{\text{MR}}$ is pulled low. RESET remains HIGH for the reset timeout period after $V_{CC}$ exceeds the device reset threshold and $\overline{\text{MR}}$ is released high.                                           |
| —                 | —                             | 3                 | 3                             | $\overline{\text{MR}}$    | Active-Low Manual Reset Input. Internal $20\text{k}\Omega$ pullup to $V_{CC}$ . Pull LOW to force a reset. Reset remains active as long as $\overline{\text{MR}}$ is LOW and for the reset timeout period after $\overline{\text{MR}}$ goes HIGH. Leave unconnected or connect to $V_{CC}$ if unused.                                                                   |
| 3                 | 3                             | 4                 | 4                             | $V_{CC}$                  | Supply Voltage and Monitored Supply                                                                                                                                                                                                                                                                                                                                     |

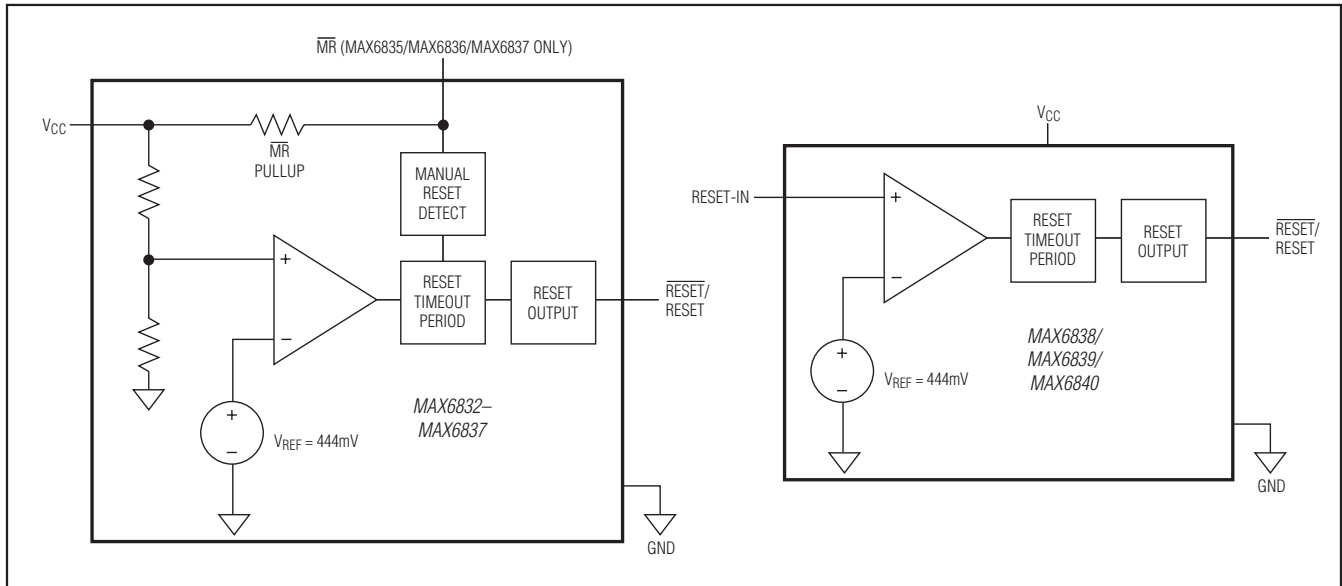
### Pin Description—MAX6838/MAX6839/MAX6840

| PIN               |                               | NAME                      | FUNCTION                                                                                                                                                                                                                                                                                        |
|-------------------|-------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAX6839<br>SC70-4 | MAX6838/<br>MAX6840<br>SC70-4 |                           |                                                                                                                                                                                                                                                                                                 |
| 1                 | 1                             | RESET-IN                  | Adjustable Reset Threshold Input. High-impedance input for reset comparator. Connect this pin to an external resistive-divider network to set the reset threshold voltage; the typical threshold is 444mV. Reset is asserted when RESET-IN is below the threshold ( $V_{CC}$ is not monitored). |
| 2                 | 2                             | $V_{CC}$                  | Supply Voltage (1.1V to 3.3V)                                                                                                                                                                                                                                                                   |
| 3                 | 3                             | GND                       | Ground                                                                                                                                                                                                                                                                                          |
| 4                 | —                             | RESET                     | Reset Output, Push-Pull, Active-High. RESET changes from LOW to HIGH when the RESET-IN input drops below the typical reset threshold (444mV). RESET remains HIGH for the reset timeout period after RESET-IN exceeds the reset threshold.                                                       |
| —                 | 4                             | $\overline{\text{RESET}}$ | Reset Output, Open-Drain or Push-Pull, Active-Low. $\overline{\text{RESET}}$ changes from HIGH to LOW when RESET-IN drops below the typical reset threshold (444mV). $\overline{\text{RESET}}$ remains LOW for the reset timeout period after RESET-IN exceeds the reset threshold.             |

# MAX6832–MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### Functional Diagrams



### Detailed Description

#### Reset Output

A microprocessor's ( $\mu$ P's) reset input starts the  $\mu$ P in a known state. The MAX6832–MAX6840 assert a reset to prevent code-execution errors during power-up, power-down, or brownout conditions. They also assert a reset signal whenever the  $V_{CC}$  supply voltage falls below a preset threshold (MAX6832–MAX6837) or RESET-IN falls below the adjustable threshold (MAX6838/MAX6839/MAX6840), keeping reset asserted for a fixed timeout delay (Table 2) after  $V_{CC}$  or RESET-IN has risen above the reset threshold. The MAX6832/MAX6835/MAX6838 use a push-pull active-low output, the MAX6833/MAX6836/MAX6839 have a push-pull active-high output, and the MAX6834/MAX6837/MAX6840 have an open-drain active-low output stage. Connect a pullup resistor on the MAX6834/MAX6837/MAX6840's  $\overline{\text{RESET}}$  output to any supply between 0 and 6V.

#### Manual Reset Input

Many  $\mu$ P-based systems require manual reset capability, allowing the operator, a test technician, or external logic circuitry to initiate a reset. Reset remains asserted while  $\overline{MR}$  is low, and for a fixed timeout delay after  $\overline{MR}$  returns high. This input has an internal  $20\text{k}\Omega$  pullup resistor, so it can be left open if it is not used.  $\overline{MR}$  can be driven with CMOS logic level, or with open-drain/collector outputs. To create a manual reset function, connect a normally open momentary switch from  $\overline{MR}$  to ground; external debounce circuitry is not required. If

$\overline{MR}$  is driven from long cables or if the device is used in a noisy environment, connecting a  $0.1\mu\text{F}$  capacitor from  $\overline{MR}$  to ground provides additional noise immunity.

#### RESET-IN Information

The MAX6838/MAX6839/MAX6840 feature a RESET-IN input for monitoring supply voltages down to  $0.44\text{V}$ . An external resistive-divider network can be used to set voltage monitoring thresholds as shown in Figure 1. As the monitored voltage falls, the voltage at RESET-IN decreases and asserts a reset when it falls below the RESET-IN threshold ( $V_{RSTIN}$ ). The low-leakage current

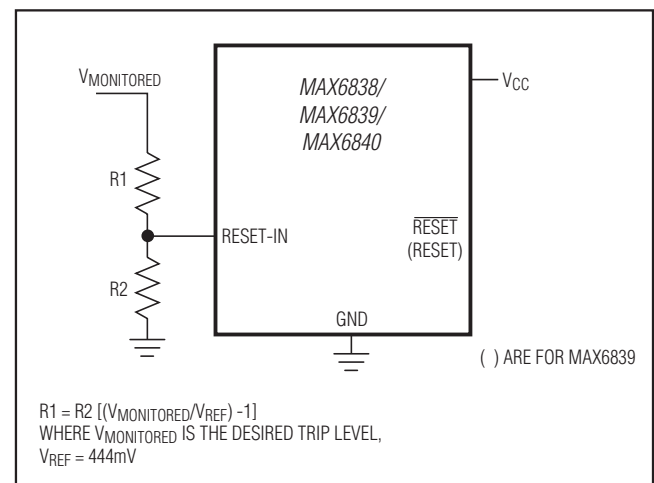


Figure 1. Setting the Adjustable Threshold Externally

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## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu\text{P}$ Reset Circuits

at RESET-IN allows for relatively large-value resistors to be used, which reduce power consumption. For example, for a 0.6V monitored trip level, if  $R_2 = 200\text{k}\Omega$ , then  $R_1 = 70.3\text{k}\Omega$ . Note that the minimum  $V_{CC}$  of 1.1V is required to guarantee the RESET-IN threshold accuracy (see *Electrical Characteristics* table).

### Applications Information

#### Negative-Going $V_{CC}$ Transients

In addition to issuing a reset to the  $\mu\text{P}$  during power-up, power-down, and brownout conditions, the MAX6832–MAX6840 are relatively immune to short-duration negative-going  $V_{CC}$  transients (glitches).

Figure 2 shows typical transient duration vs. reset comparator overdrive, for which the MAX6832–MAX6840 do **not** generate a reset pulse. The graph was generated using a negative-going pulse applied to  $V_{CC}$ , starting 0.1V above the actual reset threshold and ending below it by the magnitude indicated (reset comparator overdrive). The graph indicates the maximum pulse width with a negative-going  $V_{CC}$  transient can have without causing a reset pulse. As the magnitude of the transient increases (goes farther below the reset threshold), the maximum allowable pulse width decreases. A 0.1 $\mu\text{F}$  bypass capacitor mounted as close as possible to the  $V_{CC}$  pin provides additional transient immunity.

#### Ensuring a Valid Reset Output Down to $V_{CC} = 0$

When  $V_{CC}$  falls below 0.55V, the MAX6832/MAX6835/MAX6838 push-pull RESET output no longer sinks current—it becomes an open circuit. Therefore, high-impedance CMOS logic inputs connected to RESET

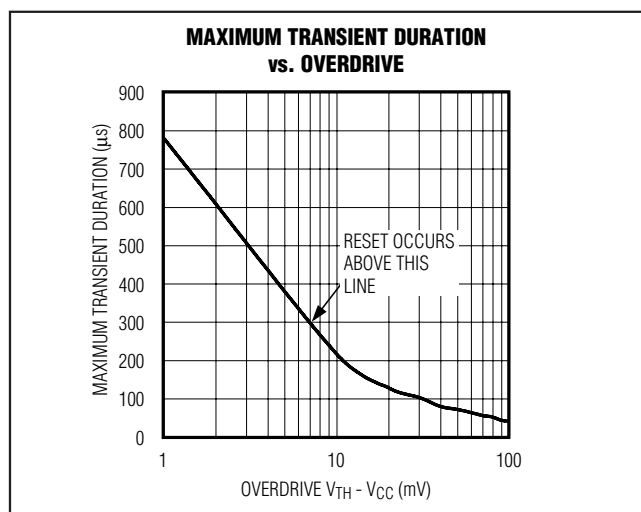


Figure 2. Maximum Transient Duration Without Causing a Reset Pulse vs. Reset Comparator Overdrive

can drift to undetermined voltages. This presents no problem in most applications since most  $\mu\text{P}$  and other circuitry are inoperative with  $V_{CC}$  lower than 0.55V. However, in applications where RESET must be valid down to 0, adding a pullup resistor to RESET causes any stray leakage currents to flow to ground, holding RESET low (Figure 3).  $R_3$ 's value is not critical; 100k $\Omega$  is large enough not to load RESET and small enough to pull RESET to ground.

A 100k $\Omega$  pullup resistor to  $V_{CC}$  is also recommended for the MAX6833/MAX6836/MAX6839 if RESET is required to remain valid for  $V_{CC} < 0.85\text{V}$ .

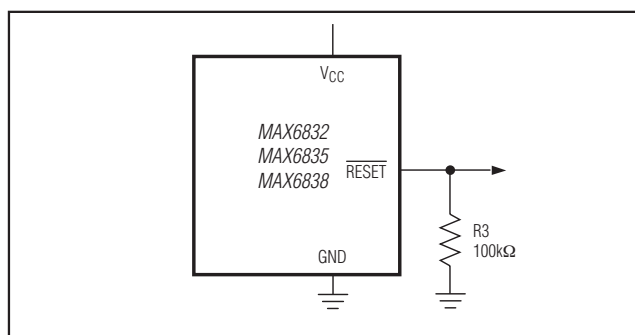


Figure 3. RESET Valid to  $V_{CC} = \text{Ground}$  Circuit

#### Interfacing to $\mu\text{P}$ s with Bidirectional Reset Pins

Since the RESET output on the MAX6834/MAX6837/MAX6840 is open-drain, these devices interface easily with  $\mu\text{P}$ s that have bidirectional reset pins. Connecting the  $\mu\text{P}$  supervisor's RESET output directly to the RESET pin with a single pullup resistor allows either device to assert a reset (Figure 4).

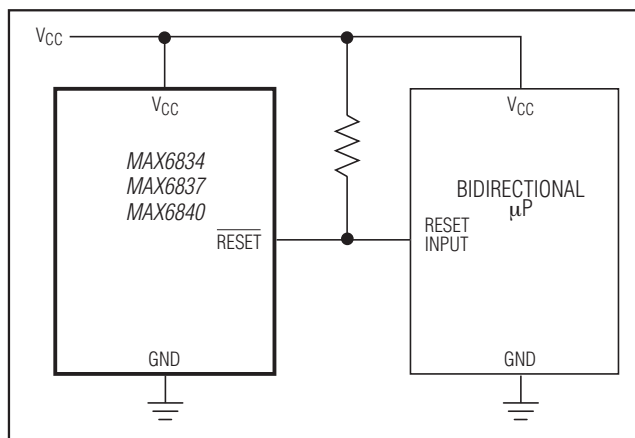


Figure 4. Interfacing to  $\mu\text{P}$ s with Bidirectional Reset I/O

# MAX6832–MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### Using The MAX6834/MAX6837/MAX6840 Open-Drain RESET Output with Multiple Supplies

Generally, the pullup connected to the MAX6834/MAX6837/MAX6840 will connect to the supply voltage that is being monitored at the IC's  $V_{CC}$  pin. However, some systems may use the open-drain output to level-shift from the monitored supply to reset circuitry powered by some other supply (Figure 5). Note that as the MAX6834/MAX6837/MAX6840's  $V_{CC}$  decreases, so does the IC's ability to sink current at RESET. Also, with any pullup, RESET will be pulled high as  $V_{CC}$  declines toward 0. The voltage where this occurs depends on the pullup resistor value and the voltage to which it is connected.

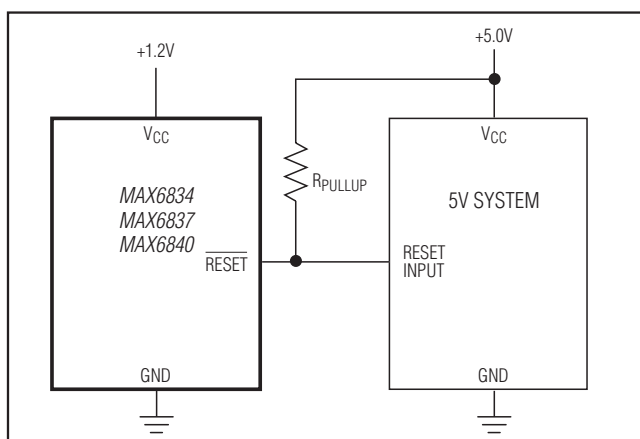


Figure 5. Using The MAX6834/MAX6837/MAX6840 Open-Drain RESET Output with Multiple Supplies

### Chip Information

TRANSISTOR COUNT: 681

PROCESS: BiCMOS

### Selector Guide

Table 1. Threshold Suffix Guide

| SUFFIX | RESET THRESHOLD (V) |
|--------|---------------------|
| W      | 1.665               |
| V      | 1.575               |
| I      | 1.388               |
| H      | 1.313               |
| G      | 1.110               |
| F      | 1.050               |

Table 2. Active Timeout Period Guide

| SUFFIX | TYPICAL RESET ACTIVE TIMEOUT PERIOD (ms) |
|--------|------------------------------------------|
| D0     | 0.07                                     |
| D1     | 1.5                                      |
| D2     | 30                                       |
| D3     | 210                                      |
| D4     | 1680                                     |

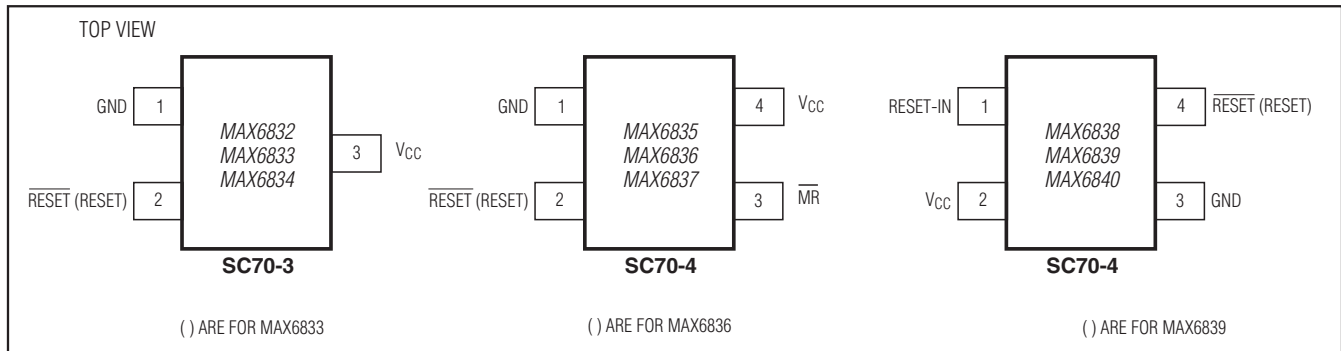
Table 3. Standard Versions

| DEVICE       | TOP MARK |
|--------------|----------|
| MAX6832VXRD0 | AIQ      |
| MAX6832VXRD3 | AIR      |
| MAX6832HXR00 | AIS      |
| MAX6832HXR03 | AIT      |
| MAX6832FXRD0 | AIU      |
| MAX6832FXRD3 | AIV      |
| MAX6833VXRD0 | AHJ      |
| MAX6833VXRD3 | AIW      |
| MAX6833HXR00 | AIX      |
| MAX6833HXR03 | AIY      |
| MAX6833FXRD0 | AIZ      |
| MAX6833FXRD3 | AJA      |
| MAX6834VXRD0 | AJB      |
| MAX6834VXRD3 | AJC      |
| MAX6834HXR00 | AJD      |
| MAX6834HXR03 | AJE      |
| MAX6834FXRD0 | AJF      |
| MAX6834FXRD3 | AJG      |
| MAX6835VXSD0 | AEX      |

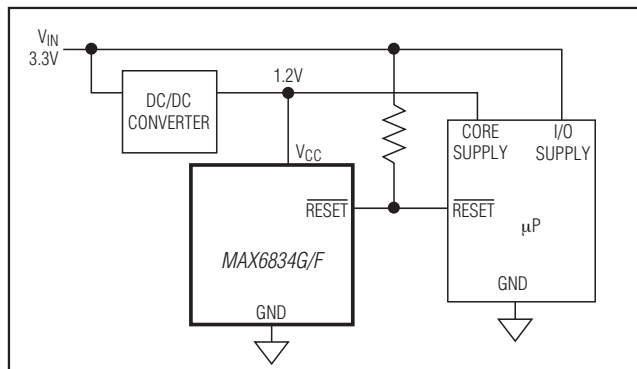
# MAX6832–MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### Pin Configurations



### Typical Operating Circuit



### Selector Guide (continued)

Table 3. Standard Versions (continued)

| DEVICE       | TOP MARK |
|--------------|----------|
| MAX6835VXSD3 | AFF      |
| MAX6835HXSD0 | AFG      |
| MAX6835HXSD3 | AFH      |
| MAX6835FXSD0 | AFI      |
| MAX6835FXSD3 | AFJ      |
| MAX6836VXSD0 | AFK      |
| MAX6836VXSD3 | AFL      |
| MAX6836HXSD0 | AFM      |
| MAX6836HXSD3 | AFN      |
| MAX6836FXSD0 | AFO      |
| MAX6836FXSD3 | AFP      |
| MAX6837VXSD0 | AFQ      |
| MAX6837VXSD3 | AFR      |
| MAX6837HXSD0 | AFS      |
| MAX6837HXSD3 | AFT      |
| MAX6837FXSD0 | AFU      |
| MAX6837FXSD3 | AFC      |
| MAX6838XSD0  | AFW      |
| MAX6838XSD3  | AFV      |
| MAX6839XSD0  | AFX      |
| MAX6839XSD3  | AEZ      |
| MAX6840XSD0  | AFY      |
| MAX6840XSD3  | AFZ      |

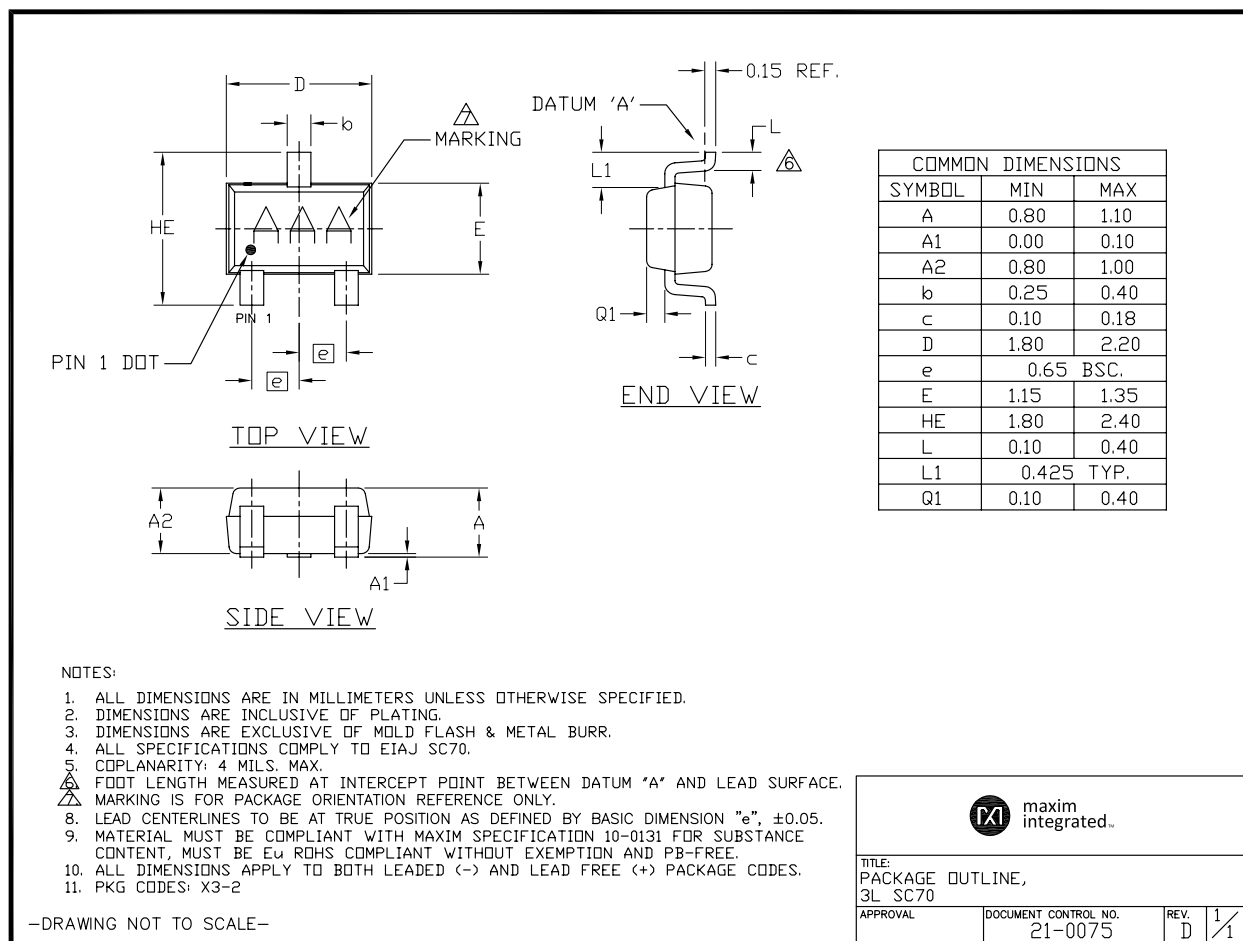


# MAX6832-MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### Package Information

For the latest package outline information and land patterns (footprints), go to [www.maximintegrated.com/packages](http://www.maximintegrated.com/packages). Note that a "+", "#", or "-" in the package code indicates RoHS status only. Package drawings may show a different suffix character, but the drawing pertains to the package regardless of RoHS status.

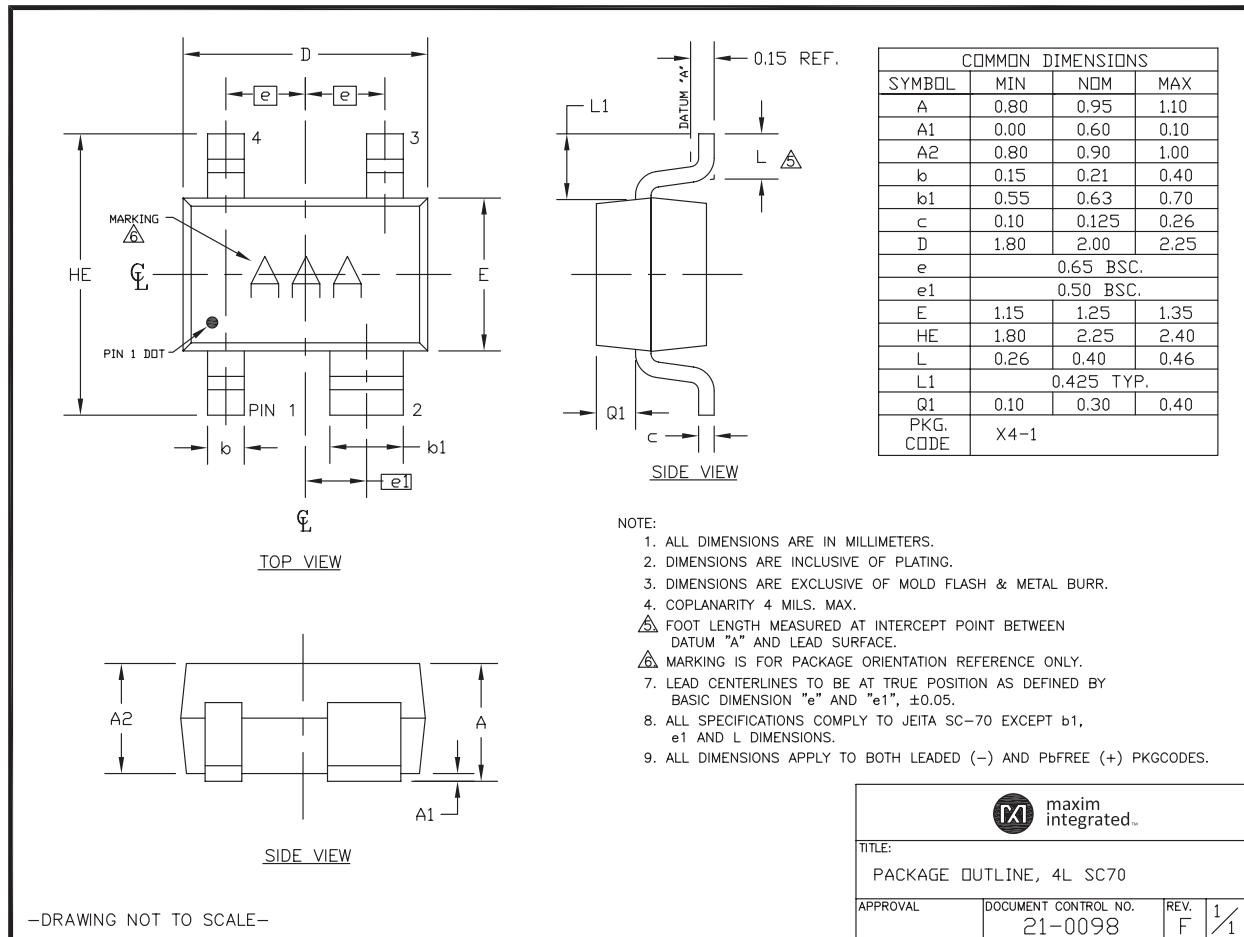


# MAX6832-MAX6840

## Ultra-Low-Voltage SC70 Voltage Detectors and $\mu$ P Reset Circuits

### Package Information (continued)

For the latest package outline information and land patterns (footprints), go to [www.maximintegrated.com/packages](http://www.maximintegrated.com/packages). Note that a "+", "#", or "-" in the package code indicates RoHS status only. Package drawings may show a different suffix character, but the drawing pertains to the package regardless of RoHS status.



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Maxim Integrated 160 Rio Robles, San Jose, CA 95134 USA 1-408-601-1000

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