

MIC826

Voltage Supervisor with Watchdog Timer, Manual Reset, and Dual Outputs

Features

- Precision 1.8V to 5V Power Supply Monitor
- ±0.5% Threshold Accuracy at T_A = +25°C
- + $\pm 1.5\%$ Threshold Accuracy from T_A = -40° C to $\pm 125^{\circ}$ C
- 3.8 µA Supply Current (MIC826S/R/T/W/Y/Z)
- 4.8 µA Supply Current (MIC826L/M)
- Manual Reset Input
- 140 ms (min.) Reset Timeout Period
- 1.6s (typ.) Watchdog Timeout Period
- Float Watchdog Timer Input to Disable Watchdog Timer
- · Active-High and Active-Low Push-Pull Outputs
- Ensured Reset Output Valid to V_{CC} = 1V
- -40°C to +125°C Junction Temperature Range
- 6-Lead 1.6 mm x 1.6 mm x 0.5 mm UDFN Package
- 50% Smaller Version of MAX823/MAX824/ MAX825/ADM823/ADM824/ADM825
- 8x Lower Watchdog Input Current than the Competition

Applications

- Microprocessor Systems
- Computers
- Intelligent Instruments

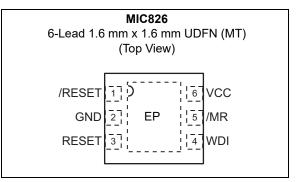
General Description

The MIC826 is a low-current, ultra-small, voltage supervisor with manual reset input, watchdog timer, and active-high and active-low push-pull outputs. The reset outputs are asserted and held when the supply voltage falls below the factory-programmed threshold voltage, when the /MR pin is pulled low, or if the watchdog times out. Reset is asserted for the reset timeout delay after the supply voltage increases above the rising threshold voltage or when manual reset input is asserted high.

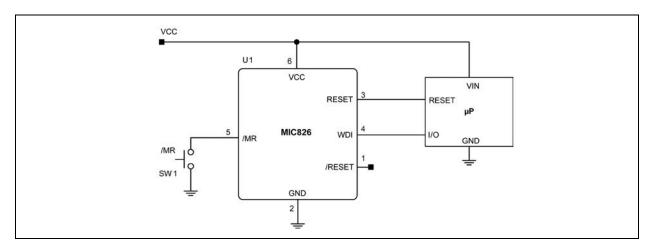
The MIC826 features an integrated pull-up resistor on the /MR. An active-low push-pull reset output (/RESET) and an active-high reset output (RESET) provide flexibility when interfacing with various microcontrollers, PMICs, or load switches. The watchdog input can be left unconnected for applications that do not require watchdog monitoring.

The MIC826 consumes a quiescent current of only 3.8 μ A and is offered in a tiny, space-saving, 6-lead 1.6 mm x 1.6 mm UDFN package. It is rated for the -40°C to +125°C temperature range.

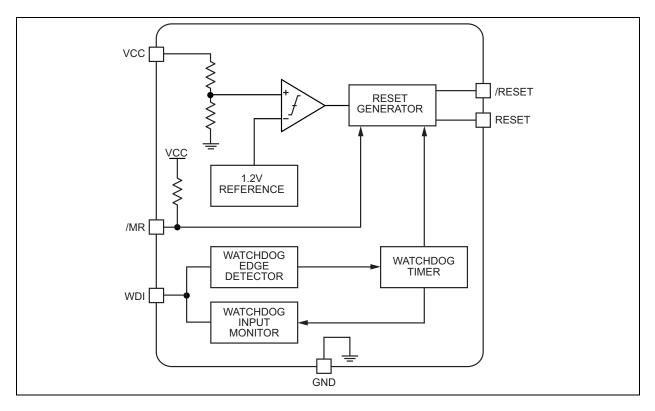
Package Type



Typical Application Circuit



Functional Block Diagram



1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

| Supply Voltage (V _{CC}) | –0.3V to +6.0V |
|--|---------------------------------|
| /MR, WDI, RESET, /RESET | –0.3V to V _{CC} + 0.3V |
| Input Current, All Pins except (RESET, /RESET) | 20 mA |
| Output Current (RESET, /RESET) | 20 mA |
| ESD Rating (Note 1) Human Body Model | 1.5 kV |
| ESD Rating (Note 1) Machine Model | 200V |
| | |

Operating Ratings ‡

† Notice: Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational sections of this specification is not intended. Exposure to maximum rating conditions for extended periods may affect device reliability.

‡ Notice: The device is not guaranteed to function outside its operating ratings.

Note 1: Devices are ESD sensitive; use proper handling precautions. Human body model, $1.5 \text{ k}\Omega$ in series with 100 pF.

ELECTRICAL CHARACTERISTICS

Electrical Characteristics: $V_{CC} = 4.7V$ to 5.5V for MIC826L, $V_{CC} = 4.5V$ to 5.5V for MIC826M, $V_{CC} = 3.15V$ to 3.6V for MIC826T, $V_{CC} = 3.0V$ to 3.6V for MIC826S, $V_{CC} = 2.7V$ to 3.6V for MIC826R, $V_{CC} = 2.38V$ to 2.75V for MIC826Z, $V_{CC} = 2.25V$ to 2.75V for MIC826Y, $V_{CC} = 1.75V$ to 2.0V for MIC826W; $T_J = +25^{\circ}C$, **bold** values (Note 2) valid for $-40^{\circ}C \le T_J \le +125^{\circ}C$, unless otherwise noted. (Note 1)

| Parameter | Symbol | Min. | Тур. | Max. | Units | Conditions | | | | |
|-------------------------|------------------|-------|-------|-------|-------|---|--|--|--|--|
| Power Supply Input | | | | | | | | | | |
| Supply Voltage | V _{CC} | 1.0 | | 5.5 | V | — | | | | |
| Supply Current | | | 4.8 | 14 | | MIC826L/M (WDI and /MR unconnected) | | | | |
| Supply Current | lvcc | | 3.8 | 8.4 | μA | MIC826T/S/R/Z/Y/W (WDI and /MR unconnected) | | | | |
| Reset Threshold Voltage | | | | | | | | | | |
| | | 4.602 | 4.625 | 4.648 | | L (falling) T _A = 25°C | | | | |
| | | 4.556 | | 4.694 | | L (falling) –40°C \leq T _A \leq +125°C | | | | |
| | | 4.353 | 4.375 | 4.397 | | M (falling) T _A = 25°C | | | | |
| | | 4.309 | | 4.441 | | M (falling) –40°C \leq T _A \leq +125°C | | | | |
| | | 3.060 | 3.075 | 3.090 | | T (falling) T _A = 25°C | | | | |
| | | 3.029 | | 3.121 | | T (falling) $-40^{\circ}C \le T_A \le +125^{\circ}C$ | | | | |
| | | 2.910 | 2.925 | 2.940 | | S (falling) T _A = 25°C | | | | |
| Reset Threshold Voltage | V | 2.881 | | 2.969 | v | S (falling) –40°C \leq T _A \leq +125°C | | | | |
| Reset Threshold Vollage | V _{RST} | 2.612 | 2.625 | 2.638 | v | R (falling) T _A = 25°C | | | | |
| | | 2.586 | | 2.664 | | R (falling) –40°C \leq T _A \leq +125°C | | | | |
| | | 2.303 | 2.315 | 2.327 | | Z (falling) T _A = 25°C | | | | |
| | | 2.280 | | 2.350 | | Z (falling) –40°C \leq T _A \leq +125°C | | | | |
| | | 2.177 | 2.188 | 2.199 | | Y (falling) T _A = 25°C | | | | |
| | | 2.155 | | 2.221 | | Y (falling) $-40^{\circ}C \le T_A \le +125^{\circ}C$ | | | | |
| | | 1.657 | 1.665 | 1.673 | | W (falling) T _A = 25°C | | | | |
| | | 1.640 | | 1.690 | | W (falling) $-40^{\circ}C \le T_A \le +125^{\circ}C$ | | | | |

ELECTRICAL CHARACTERISTICS (CONTINUED)

Electrical Characteristics: $V_{CC} = 4.7V$ to 5.5V for MIC826L, $V_{CC} = 4.5V$ to 5.5V for MIC826M, $V_{CC} = 3.15V$ to 3.6V for MIC826T, $V_{CC} = 3.0V$ to 3.6V for MIC826S, $V_{CC} = 2.7V$ to 3.6V for MIC826R, $V_{CC} = 2.38V$ to 2.75V for MIC826Y, $V_{CC} = 1.75V$ to 2.0V for MIC826W; $T_J = +25^{\circ}C$, **bold** values (Note 2) valid for $-40^{\circ}C \le T_J \le +125^{\circ}C$, unless otherwise noted. (Note 1)

| Parameter | Symbol | Min. | Тур. | Max. | Units | Conditions |
|--|----------------------|--------------------------|-----------|--------------------------|--------|---|
| Deast Threshold Unstaroois | V | | 10 | | m)/ | L, M |
| Reset Threshold Hysteresis | V _{RST_HYS} | _ | 5 | — | mV | T, S, R, Z, Y, W |
| Reset Threshold Temperature Coefficient | | | 40 | — | ppm/°C | _ |
| Reset Timeout Period | t _{RP} | 140 | 200 | 280 | ms | — |
| Reset Time | | | | | | |
| VCC to /RESET Delay | t _{RD} | _ | 10 | _ | μs | — |
| Reset Outputs (/RESET, RESI | ET) | | | | | |
| | | V _{CC} – 1.5 | _ | _ | | L, M: V _{CC} = V _{RST(MAX)} , I _{SOURCE} = 120 µA |
| /RESET Output Voltage High | V _{OH} | 0.8 x V _{CC} | _ | _ | V | T, S, R, Z, Y: $V_{CC} = V_{RST(MAX)}$, I _{SOURCE} = 30 μ A |
| | | 0.8 x V _{CC} | | — | | W: $V_{CC} = V_{RST(MAX)}$, I _{SOURCE} = 20 μ A |
| | | | | 0.4 | | L, M: $V_{CC} = V_{RST(MIN)}$, $I_{SINK} = 3.2 \text{ mA}$ |
| /RESET Output Voltage Low | V _{OL} | | _ | 0.3 | v | T, S, R, Z, Y, W: $V_{CC} = V_{RST(MIN)}$, I _{SINK} = 1.2 mA |
| | | | _ | 0.3 | | T _A = 0°C to +70°C, V _{CC} = 1V, I _{SINK} = 50 μΑ |
| | | — | | 0.3 | | V _{CC} = 1.2V, I _{SINK} =100 μA |
| /RESET Output Short-Circuit | | — | | 800 | | L, M: /RESET = 0V, V _{CC} = 5.5V |
| Current (Note 3) | I _{SC} | — | | 400 | μA | T, S, R, Z, Y, W: /RESET = 0V, V _{CC} = 3.6V |
| RESET Output Voltage High | V _{OH} | 0.8 x V _{CC} | | — | V | V _{CC} > 1.6V, I _{SOURCE} = 150 μA |
| RESET Output Voltage Low | | | | 0.4 | v | L, M: $V_{CC} = V_{RST(MAX)}$, I _{SINK} = 3.2 mA |
| NEGET Output voltage Low | V _{OL} | | | 0.3 | v | T, S, R, Z, Y, W: $V_{CC} = V_{RST(MAX)}$, I _{SINK} = 1.2 mA |
| Watchdog Input (WDI) (Note 4 |) | | | | _ | |
| Watchdog Timeout Period | t _{WD} | 1.12 | 1.60 | 2.40 | sec. | _ |
| Watchdog Pulse Width | | 50 | | _ | ns | |
| Watchdog Input Low Voltage | V _{IL} | | | 0.3 x V _{CC} | V | _ |
| Watchdog Input High Voltage | V _{IH} | 0.7 x V _{CC} | | _ | V | _ |
| Watchdog Input Current | I _{IN} | | 15 –15 | 25 | μA | WDI = V _{CC} WDI = 0V |
| Manual Reset Input (/MR) | 1 | | | 1 | 1 | 1 |
| Input Low Voltage | V _{IL} | _ | _ | 0.3 x V _{CC} | V | _ |
| Input High Voltage | V _{IH} | 0.7 x V _{CC} | _ | _ | V | — |

ELECTRICAL CHARACTERISTICS (CONTINUED)

Electrical Characteristics: $V_{CC} = 4.7V$ to 5.5V for MIC826L, $V_{CC} = 4.5V$ to 5.5V for MIC826M, $V_{CC} = 3.15V$ to 3.6V for MIC826T, $V_{CC} = 3.0V$ to 3.6V for MIC826S, $V_{CC} = 2.7V$ to 3.6V for MIC826R, $V_{CC} = 2.38V$ to 2.75V for MIC826Z, $V_{CC} = 2.25V$ to 2.75V for MIC826Y, $V_{CC} = 1.75V$ to 2.0V for MIC826W; $T_J = +25^{\circ}C$, **bold** values (Note 2) valid for $-40^{\circ}C \le T_J \le +125^{\circ}C$, unless otherwise noted. (Note 1)

| Parameter | Symbol | Min. | Тур. | Max. | Units | Conditions |
|--|--------|------|------|------|-------|------------|
| /MR Pulse Width | | 1.0 | — | | μs | — |
| /MR Noise Immunity (pulse width with no reset) | | _ | 100 | _ | ns | _ |
| /MR to RESET Delay | | — | 500 | _ | ns | — |
| /MR Internal Pull-Up Resistor | | 35 | 52 | 75 | kΩ | — |

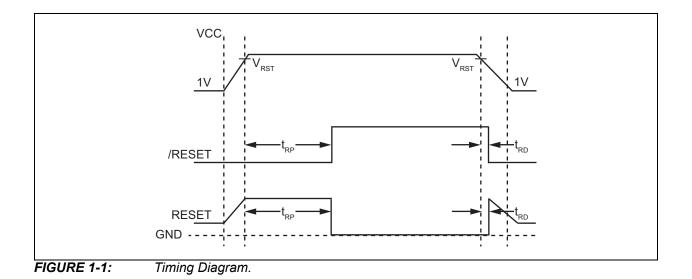
Note 1: Specifications are for packaged products only.

- 2: Overtemperature limits are ensured by design and not product tested.
- **3:** The /RESET short-circuit current is the maximum pull-up current when /RESET is driven low by μP bidirectional reset pin.
- **4:** The WDI input is designed to drive a three-state output device with a 10 μA maximum leakage current and a maximum capacitance of 200 pF.

TEMPERATURE SPECIFICATIONS

| Parameters | Sym. | Min. | Тур. | Max. | Units | Conditions | | |
|---|---------------------|------|------|------|-------|------------|--|--|
| Temperature Ranges | | | | | | | | |
| Maximum Junction Temperature Range | T _{J(MAX)} | -40 | — | +150 | °C | — | | |
| Operating Junction Temperature Range | TJ | -40 | _ | +125 | °C | Note 1 | | |
| Storage Temperature Range | Τ _S | -65 | _ | +150 | °C | — | | |
| Package Thermal Resistances | | | | | | | | |
| Thermal Resistance, UDFN 6-Ld | θ_{JA} | | 92.4 | — | °C/W | — | | |
| | θ_{JC} | _ | 56.4 | _ | °C/W | — | | |

Note 1: The maximum allowable power dissipation is a function of ambient temperature, the maximum allowable junction temperature and the thermal resistance from junction to air (i.e., T_A, T_J, θ_{JA}). Exceeding the maximum allowable power dissipation will cause the device operating junction temperature to exceed the maximum +125°C rating. Sustained junction temperatures above +125°C can impact the device reliability.



2.0 TYPICAL PERFORMANCE CURVES

Note: The graphs and tables provided following this note are a statistical summary based on a limited number of samples and are provided for informational purposes only. The performance characteristics listed herein are not tested or guaranteed. In some graphs or tables, the data presented may be outside the specified operating range (e.g., outside specified power supply range) and therefore outside the warranted range.

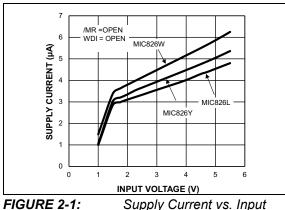


FIGURE 2-1: Voltage.

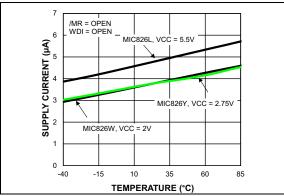


FIGURE 2-2: Supply Current vs. Temperature.

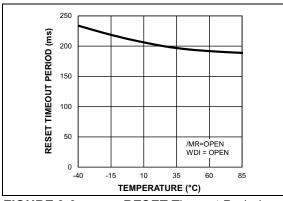


FIGURE 2-3: RESET Timeout Period vs. Temperature.

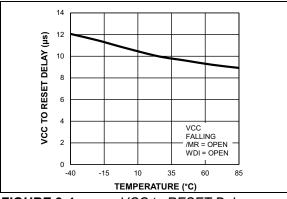


FIGURE 2-4: Temperature.

VCC to RESET Delay vs.

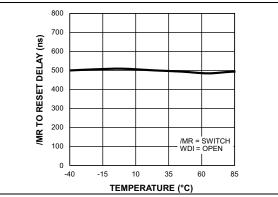


FIGURE 2-5: Temperature.

/MR to RESET Delay vs.

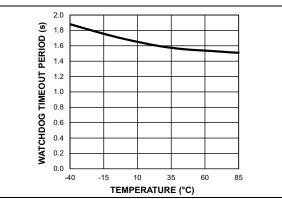


FIGURE 2-6: vs. Temperature.

Watchdog Timeout Period

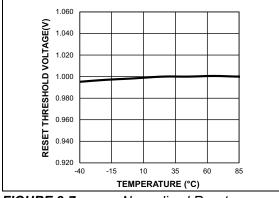


FIGURE 2-7: Normalized Reset Threshold vs. Temperature.

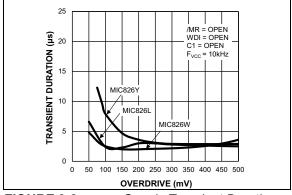


FIGURE 2-8: Supply Transient Duration vs. Overdrive.

3.0 PIN DESCRIPTIONS

The descriptions of the pins are listed in Table 3-1.

| TABLE 3-1: | PIN FUNCTION TABLE |
|-------------------|--------------------|
|-------------------|--------------------|

| Pin Number | Pin Name | Description |
|------------|----------|---|
| 1 | /RESET | Active-Low Reset Output. Pulses low for 200 ms when triggered, and remains low whenever V _{CC} is below the reset threshold or when /MR is a logic low. It remains low for 200 ms after one of the following occurs: V _{CC} rises above the reset threshold, the watchdog triggers a reset, or /MR goes low to high. |
| 2 | GND | Supply Ground. |
| 3 | RESET | Active-High Reset Output. Pulses high for 200 ms when triggered, and remains high whenever V_{CC} is below the reset threshold or when /MR is a logic low. It remains high for 200 ms after one of the following occurs: V_{CC} rises above the reset threshold, the watchdog triggers a reset, or /MR goes low to high. RESET is the inverse of /RESET. |
| 4 | WDI | Watchdog Input. If WDI remains either high or low for longer than the watchdog timeout period, the internal watchdog timer runs out and a reset is triggered. The internal watchdog timer clears whenever reset is asserted, or whenever WDI sees a rising or falling edge. If WDI is left unconnected or is connected to a three-stated buffer output, the watchdog feature is disabled. |
| 5 | /MR | Manual Reset Input. A logic low on /MR asserts reset. Reset remains asserted as long as /MR is held low and for 200 ms after /MR returns high. The active-low input has an internal 52 k Ω pull-up resistor. It can be driven from a CMOS logic line or shorted to ground with a switch. Leave open or connect to VCC if unused. |
| 6 | VCC | Supply Voltage Pin. VCC is the input to the supply voltage monitor. When the supply voltage falls below the reset threshold voltage, reset outputs (/RESET and RESET) are triggered immediately. When the supply voltage rises above the reset threshold plus hysteresis voltage, the reset outputs remain asserted for the duration of the reset timeout period. A decoupling ceramic capacitor (minimum 0.1 μ F) must be connected between VCC and GND close to the pins. |
| EP | ePAD | Exposed Pad. Connect to GND. |

4.0 FUNCTIONAL DESCRIPTION

4.1 Design and Product Advantages

The MIC826 is a voltage supervisor reset IC with a manual reset input, watchdog input, and dual reset outputs. The MIC826 asserts and holds a reset when the supply voltage falls below the factory-programmed threshold voltage, when /MR is at low logic level, or when watchdog input times out. Reset is asserted for a fixed reset timeout period after the supply voltage increases above the rising threshold voltage or when the manual reset input is asserted high.

The MIC826 features an active-low, push-pull reset output (/RESET) and an active-high, push-pull reset output (RESET). It also contains 52 kΩ pull-up resistors on the /MR input to make it easy to connect to pushbutton inputs. The MIC826 also features a watchdog (WDI) input.

Manual Reset Input (/MR) 4.2

The /MR input pin has integrated pull-up resistors to keep the current consumption low when the pushbutton switch is pressed.

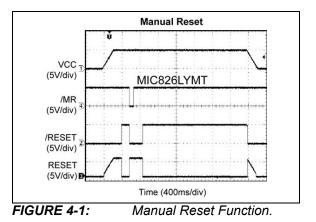
4.3 Reset Outputs (/RESET and RESET)

There are two reset outputs: /RESET and RESET. Both outputs are push-pull, which eliminates the need for pull-up resistors. The RESET output is the inverse of the /RESET output.

4.4 Asserting /RESET and RESET Outputs

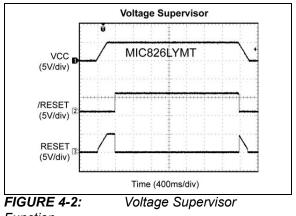
4.4.1 WHEN FUNCTIONING AS A MANUAL RESET

The reset outputs /RESET and RESET are asserted while the /MR pin is driven low. Both reset outputs remain asserted for a factory-programmed reset timeout delay time, t_{RP}. The typical value of a reset timeout period is 200 ms. The /RESET pin is driven low while the RESET pin is driven high whenever /MR is pulled low.



4.4.2 WHEN FUNCTIONING AS A VOLTAGE SUPERVISOR

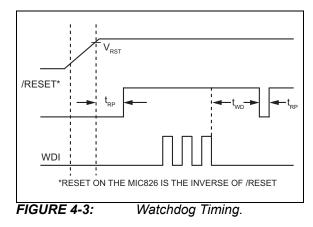
The /RESET pin is asserted whenever V_{CC} falls below the reset threshold voltage, V_{RST} ($V_{CC} < V_{RST}$). The VCC pin circuitry includes hysteresis to prevent /RESET or RESET pin chattering due to noise. The /RESET pin remains asserted for the duration of the reset timeout delay (t_{RP}) after V_{CC} has risen above the reset threshold voltage plus the hysteresis. The reset function ensures that a microprocessor is properly reset and powers up in a known condition after a power failure. The /RESET remains valid with V_{CC} as low as 1V. The RESET output is a complement of the /RESET output.



Function.

4.4.3 WATCHDOG INPUT

The MIC826 has an on-chip watchdog timer that can reset the microprocessor if it fails to strobe the WDI input within a preset timeout period (t_{WD}). If the WDI pin is left unconnected, this function is disabled. The watchdog timeout period starts when either of the reset outputs becomes inactive and either a high-to-low or low-to-high transition occurs before the watchdog timeout period (t_{WD}) . If the watchdog timer times out, then the reset outputs will assert and stay asserted for a reset timeout period (t_{RP}). The watchdog timer is also cleared whenever the reset outputs are asserted by /MR, or if V_{CC} falls below $V_{RST}.$ The watchdog timer starts again whenever the reset outputs are de-asserted.

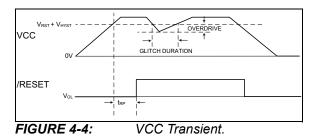


4.5 Watchdog Input Current

The WDI input current is the current sourced or sinked by the WDI pin when the WDI input is driven low or high, respectively. The WDI input is designed to drive a tri-state output device with a 10 μ A maximum leakage current and a maximum capacitance of 200 pF.

4.6 VCC Transient

The MIC826 is relatively immune to small negative-going V_{CC} glitches below the reset threshold. As shown in Figure 4-4, the overdrive voltage is the difference between the threshold voltage and the minimum point of the V_{CC} glitch. Typically, an overdrive of 100 mV with duration of 2 μ s or less will not cause a reset.



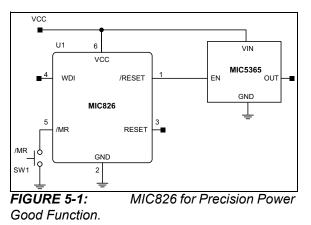
4.7 Reset Valid Up to V_{CC} = 1V

The MIC826 is a supervisory circuit that monitors the power supply voltage level. If the power supply voltage level falls below the factory-programmed threshold level, then the reset signals are asserted. The MIC826 maintains the reset states with VCC as low as 1V.

4.8 Supply Bypass Capacitor

An optional 0.1 μF input bypass capacitor can be placed from VCC (Pin 6) to GND (Pin 2) to increase glitch rejection.

5.0 TYPICAL APPLICATIONS



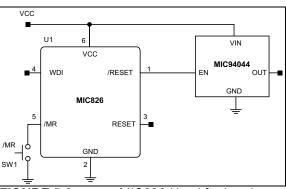
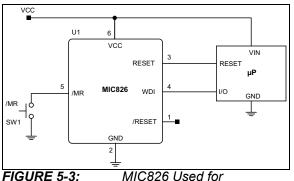
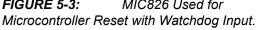
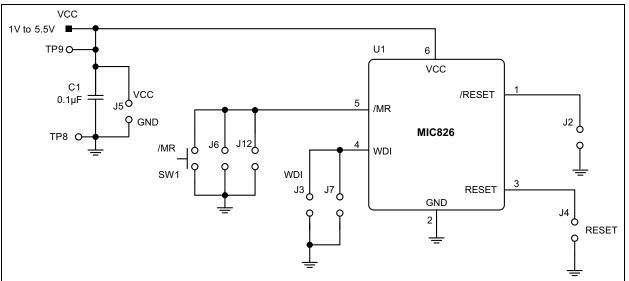


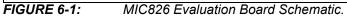
FIGURE 5-2: MIC826 Used for Load Switch.





6.0 EVALUATION BOARD SCHEMATIC





6.1 Bill of Materials

TABLE 6-1:BILL OF MATERIALS

| Item | Part Number Manufacturer | | Description | Qty. |
|------|--------------------------|-----------|--|------|
| C1 | GRM188R71C104KA01D | Murata | 0.1 μF, 16V capacitor, X7R, 0603 | 1 |
| U1 | MIC826xYMT | Microchip | Voltage Supervisor with Watchdog Timer, Manual Reset, and Dual Outputs | 1 |

7.0 PCB LAYOUT RECOMMENDATIONS

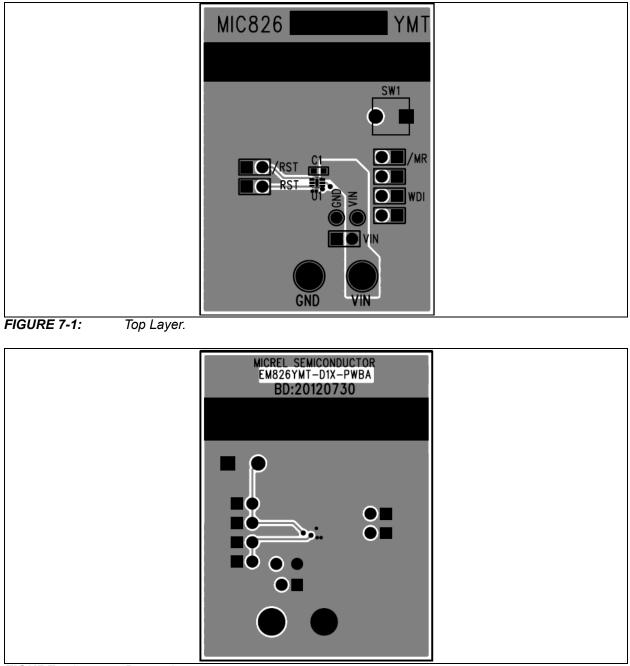


FIGURE 7-2: Bottom Layer.

8.0 PACKAGING INFORMATION

8.1 Package Marking Information



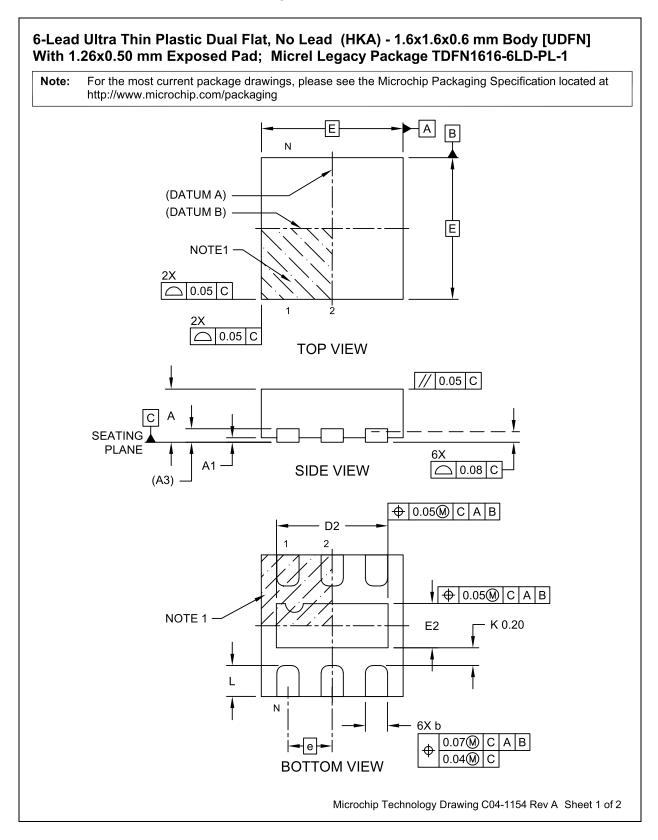
TABLE 8-1: MARKING CODES

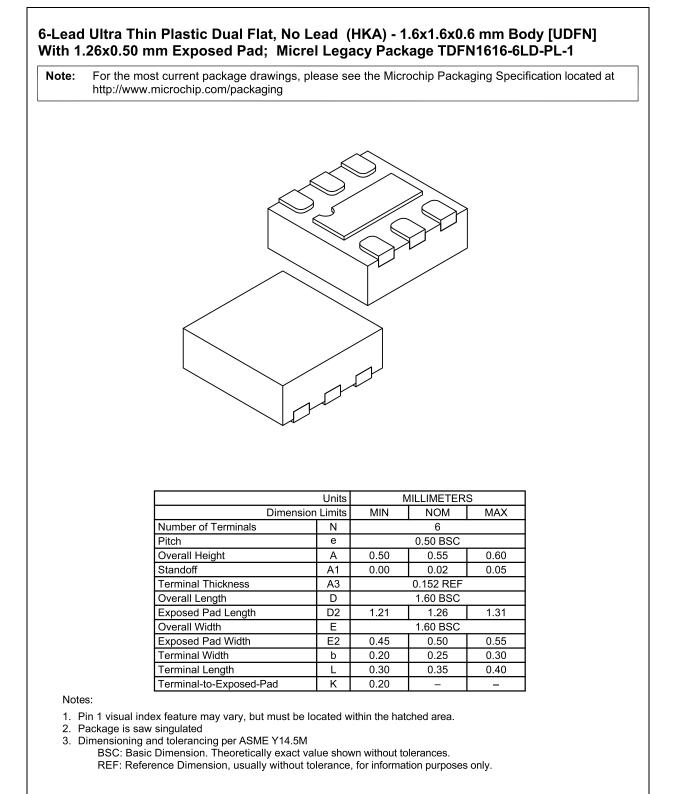
| Part Number | Marking Code | Nominal Threshold Voltage |
|-------------|--------------|---------------------------|
| MIC826LYMT | 82L | 4.625 |
| MIC826MYMT | 82M | 4.375 |
| MIC826TYMT | 82T | 3.075 |
| MIC826SYMT | 82S | 2.925 |
| MIC826RYMT | 82R | 2.625 |
| MIC826ZYMT | 82Z | 2.315 |
| MIC826YYMT | 82Y | 2.188 |
| MIC826WYMT | 82W | 1.665 |

| Legend: | Y YY WW NNN @3 * | Product code or customer-specific information Year code (last digit of calendar year) Year code (last 2 digits of calendar year) Week code (week of January 1 is week '01') Alphanumeric traceability code Pb-free JEDEC [®] designator for Matte Tin (Sn) This package is Pb-free. The Pb-free JEDEC designator (e3) can be found on the outer packaging for this package. |
|---------|---------------------------------------|---|
| t t | be carried characters he corpor | nt the full Microchip part number cannot be marked on one line, it will d over to the next line, thus limiting the number of available for customer-specific information. Package may or may not include ate logo. (_) symbol may not be to scale. |

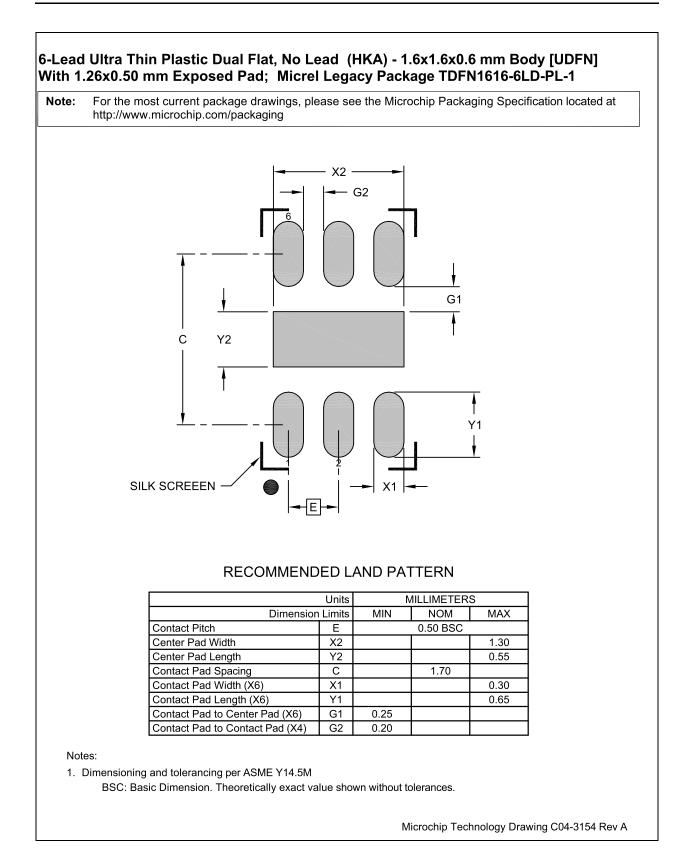
Note: If the full seven-character YYWWNNN code cannot fit on the package, the following truncated codes are used based on the available marking space:
6 Characters = YWWNNN; 5 Characters = WWNNN; 4 Characters = WNNN; 3 Characters = NNN; 2 Characters = NN; 1 Character = N

6-Lead 1.6 mm x 1.6 mm UDFN Package Outline and Recommended Land Pattern





Microchip Technology Drawing C04-1154 Rev A Sheet 2 of 2



APPENDIX A: REVISION HISTORY

Revision A (April 2022)

- Converted Micrel document MIC826 to Microchip data sheet DS20006668A.
- Minor text changes throughout.

NOTES:

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, contact your local Microchip representative or sales office.

| Part Number | X | <u>x</u> | <u>xx</u> | - <u>XX</u> | Examples: | |
|---------------------------------|---|-----------------------------------|--|-------------|--|--|
| Device | Nominal Threshold Voltage | Temp. Range | Package | Media Type | a) MIC826LYMT-TR: | MIC826, 4.625 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 5,000/Reel |
| Device: | MIC826: | | upervisor with Wa eset, and Dual Ou | | b) MIC826MYMT-T5: | MIC826, 4.375 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 500/Reel |
| Nominal Thresh- old Voltage: | $ \begin{array}{rcl} M &=& 4.375 \\ T &=& 3.075 \\ S &=& 2.925 \\ R &=& 2.625 \end{array} $ | | | | c) MIC826TYMT-TR: | MIC826, 3.075 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 5,000/Reel |
| | Z = 2.315 Y = 2.188 W = 1.665 | | | | d) MIC826SYMT-T5: | MIC826, 2.925 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 500/Reel |
| Temperature Range: | |)°C to +125°(| | | e) MIC826RYMT-TR: | MIC826, 2.625 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 5,000/Reel |
| Package: Media Type: | TR = 5,0 | ead 1.6 mm : 00/Reel)/Reel | x 1.6 mm UDFN | | f) MIC826ZYMT-T5: | MIC826, 2.315 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 500/Reel |
| | 13 - 300 | | | | g) MIC826YYMT-TR: | MIC826, 2.188 Nom. Thresh- old Voltage, -40°C to +125°C Temp. Range, 6-Lead UDFN, 5,000/Reel |
| | | | | | h) MIC826WYMT-T5: | MIC826, 1.665 Nom. Thresh- old Voltage, –40°C to +125°C Temp. Range, 6-Lead UDFN, 500/Reel |
| | | | | | catalog pa used for o the device | Reel identifier only appears in the rt number description. This identifier is rdering purposes and is not printed on package. Check with your Microchip se for package availability with the Tape option. |

NOTES:

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ISBN: 978-1-6683-0272-9

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