

Dual-Channel Power Distribution Switches

Features

- 100 mΩ Typical $R_{DS(ON)}$ at 5.0V
- 140 mΩ Maximum $R_{DS(ON)}$ at 5.0V
- 2.7V to 5.5V Operating Range
- 500 mA Minimum Continuous Current per Channel
- Short-Circuit Protection with Thermal Shutdown
- Thermally Isolated Channels
- Soft-Start Circuit
- Fault Status Flag with 3 ms Filter Eliminates False Assertions
- Undervoltage Lockout (UVLO)
- Reverse Current Flow Blocking (No “Body Diode”)
- Circuit Breaker Mode (MIC2076A)
- Pin Compatible with MIC2026 and MIC2076
- Logic-Compatible Inputs
- Low Quiescent Current

Applications

- USB Peripherals
- General Purpose Power Switching
- ACPI Power Distribution
- Notebook PCs
- PDAs
- PC Card Hot Swap

General Description

The MIC2026A and MIC2076A are high-side MOSFET switches optimized for general-purpose power distribution that require circuit protection. The MIC2026A is particularly well suited for USB applications.

The MIC2026A/76A are internally current limited and have thermal shutdown that protects the device and load.

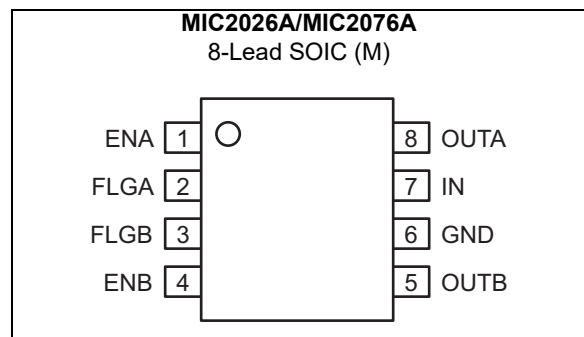
The MIC2076A offers smart shutdown that reduces current consumption in fault modes. When the MIC2076A goes into thermal shutdown due to current limiting, the output is latched off until the switch is reset. The MIC2076A can be reset by removing the load, toggling the enable input or cycling V_{IN} .

Both devices employ soft-start circuitry that minimizes inrush current in applications where highly capacitive loads are employed.

A fault status output flag is asserted during overcurrent or thermal shutdown conditions. Transient faults are internally filtered.

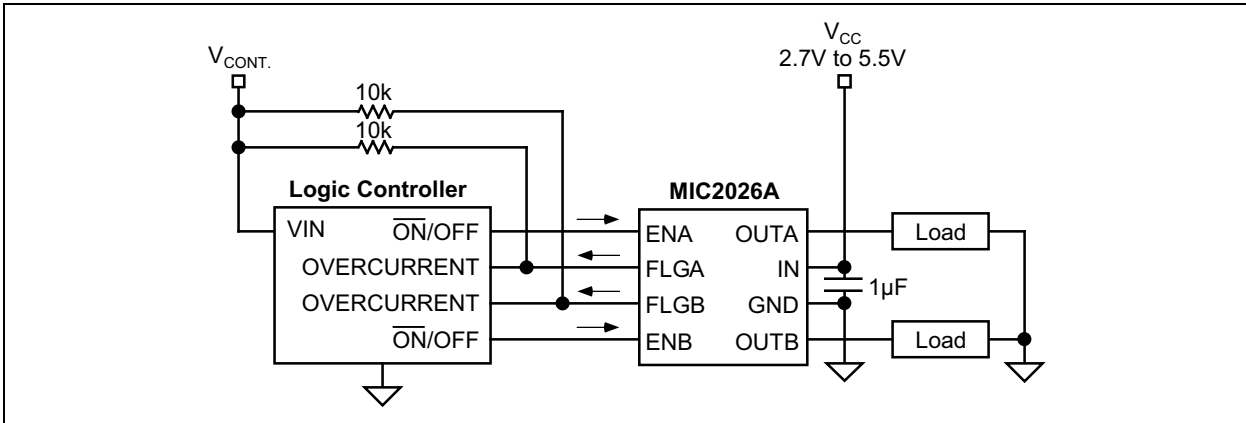
The MIC2026A and MIC2076A are available in an 8-pin SOIC package.

Package Type

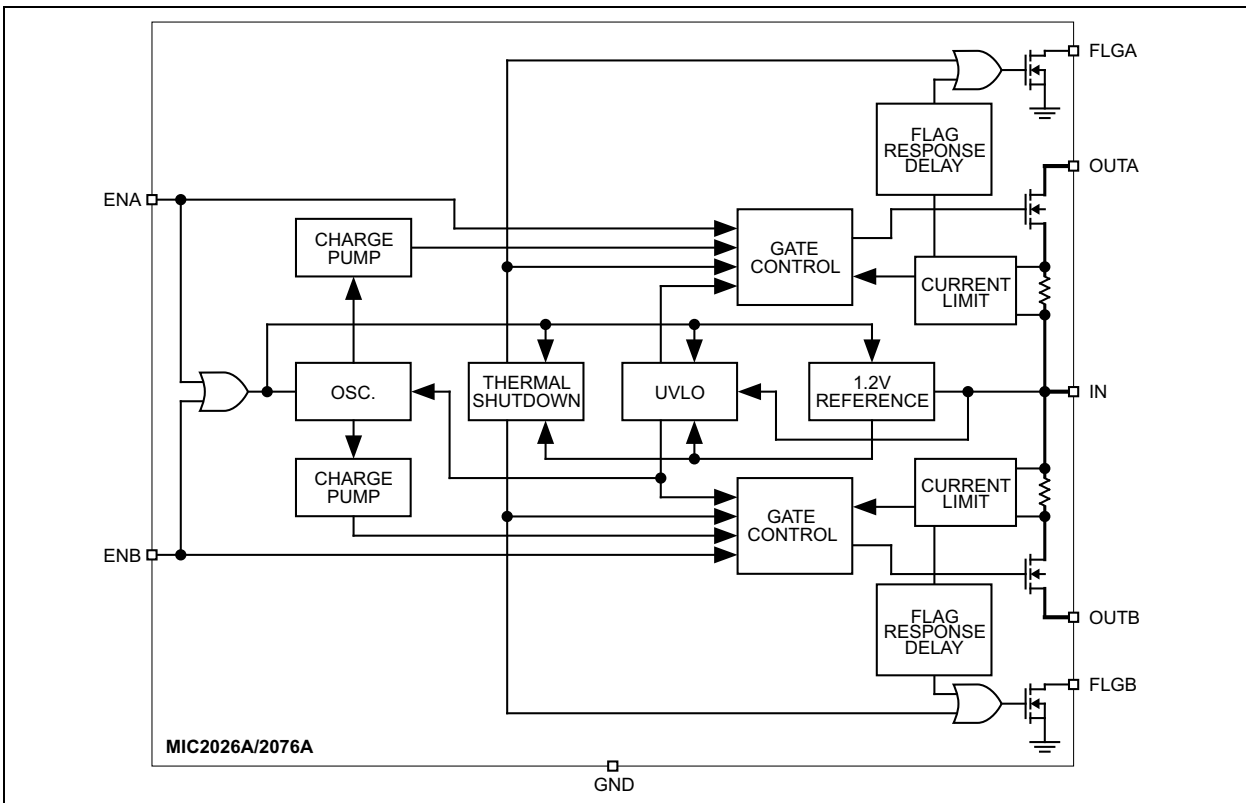


MIC2026A/76A

Typical Application Circuit



Functional Block Diagram



1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

Supply Voltage (V_{IN})	-0.3V to +6V
Output Voltage (OUTA and OUTB)	-0.3V to +6V
Voltage on All Other Pins	-0.3V to +6V
Fault Flag Current (I_{FLG})	25 mA
Output Current	Internally Limited
ESD Rating (Note 1, HBM)	3 kV
ESD Rating (Note 1, MM)	200V

Operating Ratings ‡

Supply Voltage (V_{IN})	+2.7V to +5.5V
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† **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. Handling precautions recommended.

ELECTRICAL CHARACTERISTICS

Electrical Characteristics: $V_{IN} = 5V$; $T_J = +25^\circ C$, unless noted, **bold** values valid for $-40^\circ C \leq T_J \leq +125^\circ C$. (Note 1)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Supply Current	I_{DD}	—	0.75	5	μA	MIC20x6A-1, $V_{ENA} = V_{ENB} = 0V$, (switch off), OUT = open
		—	0.75	20		MIC20x6A-2, $V_{ENA} = V_{ENB} = 5V$, (switch off), OUT = open
		—	100	160		MIC20x6A-1, $V_{ENA} = V_{ENB} = 5V$, (switch on), OUT = open
		—	100	160		MIC20x6A-2, $V_{ENA} = V_{ENB} = 0V$, (switch on), OUT = open
Enable Input Threshold	V_{EN}	—	1.6	2.4	V	Low-to-high transition
		0.8	1.45	—		High-to-low transition
Enable Input Hysteresis	V_{EN_HYST}	—	150	—	mV	—
Enable Input Current	I_{EN}	-1	0.01	1	μA	$V_{EN} = 0V$ to 5V
Enable Input Capacitance	C_{EN}	—	1	—	pF	—
Switch On Resistance	$R_{DS(ON)}$	—	100	140	m Ω	$V_{IN} = 5.0V$, $I_{OUT} = 500$ mA
		—	90	170		$V_{IN} = 3.3V$, $I_{OUT} = 500$ mA
Output Leakage Current	I_{LEAK}	—	0.01	10	μA	MIC20x6A-1, $V_{ENX} = 0V$; MIC20x6A-2, $V_{ENX} = V_{IN}$, (output off)
		—	50	—		MIC2076A, Thermal shutdown state
Short-Circuit Output Current	I_{LIM}	0.5	0.7	1.25	A	$V_{OUT} = 0V$, enabled into short-circuit
Current-Limit Threshold	I_{LIM_TRSH}	—	1.0	1.25	A	Ramped load applied to output
Undervoltage Lockout Threshold	V_{UVLO}	2.2	2.45	2.7	V	V_{IN} rising
		2.0	2.25	2.5		V_{IN} falling
UVLO Hysteresis	V_{UVHYST}	—	200	—	mV	V_{IN} rising or V_{IN} falling
Error Flag Output Resistance	R_{FLG}	—	10	25	Ω	$I_L = 10$ mA

MIC2026A/76A

ELECTRICAL CHARACTERISTICS (CONTINUED)

Electrical Characteristics: $V_{IN} = 5V$; $T_J = +25^\circ C$, unless noted, **bold** values valid for $-40^\circ C \leq T_J \leq +125^\circ C$. (Note 1)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Error Flag Off Current	$I_{FLG\ OFF}$	—	—	10	μA	$V_{FLG} = V_{IN}$
Short-Circuit Response Time	t_{SC_RESP}	—	20	—	μs	$V_{OUT} = 0V$, short-circuit applied to enabled switch
Output Turn-On Delay	t_{ON}	—	1.3	5	ms	See Timing Diagrams, $R_L = 10\Omega$, $C_L = 1\ \mu F$
Output Turn-On Rise Time	t_R	0.5	1.5	4.9	ms	See Timing Diagrams, $R_L = 10\Omega$, $C_L = 1\ \mu F$
Output Turn-Off Delay	t_{OFF}	—	32	100	μs	See Timing Diagrams, $R_L = 10\Omega$, $C_L = 1\ \mu F$
Output Turn-Off Fall Time	t_F	—	32	100	μs	See Timing Diagrams, $R_L = 10\Omega$, $C_L = 1\ \mu F$
Overcurrent Flag Response Delay	t_D	1.5	3.5	7	ms	From short-circuit to FLG pin assertion
Overtemperature Threshold (Note 2)	$T_{OVERTEMP}$	—	140	—	$^\circ C$	T_J increasing, each switch
		—	120	—		T_J decreasing, each switch
		—	160	—		T_J increasing, both switches
		—	150	—		T_J decreasing, both switches

Note 1: Specification for packaged product only.

- 2:** If there is a fault on one channel, that channel will shut down when the die reaches approximately $140^\circ C$. If the die reaches approximately $160^\circ C$, both channels will shut down even if neither channel is in current limit.

TEMPERATURE SPECIFICATIONS (Note 1)

Parameters	Sym.	Min.	Typ.	Max.	Units	Conditions
Temperature Ranges						
Junction Temperature Range	T_J	Internally Limited			$^\circ C$	—
Ambient Temperature	T_A	-40	—	+85	$^\circ C$	—
Lead Temperature	—	—	—	+260	$^\circ C$	Soldering, 10 sec.
Storage Temperature	T_S	-65	—	+150	$^\circ C$	—
Package Thermal Resistance						
Thermal Resistance, SOIC 8-Ld	θ_{JA}	—	160	—	$^\circ C/W$	—

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 $+85^\circ C$ rating. Sustained junction temperatures above $+85^\circ C$ can impact the device reliability.

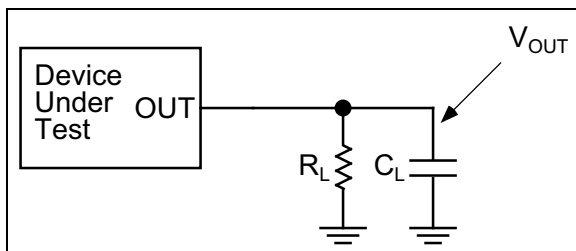


FIGURE 1-1: Test Circuit.

Timing Diagrams

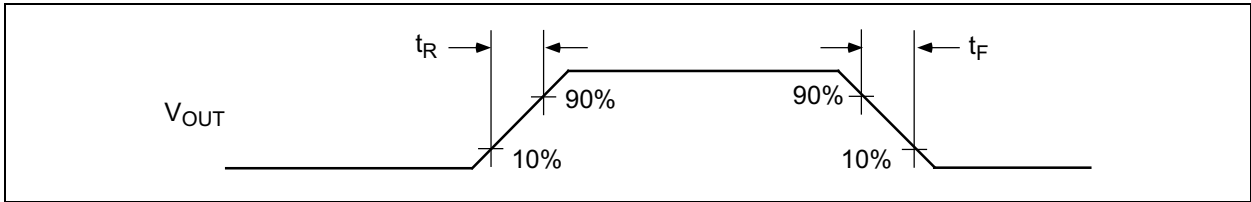


FIGURE 1-2: Output Rise and Fall Times.

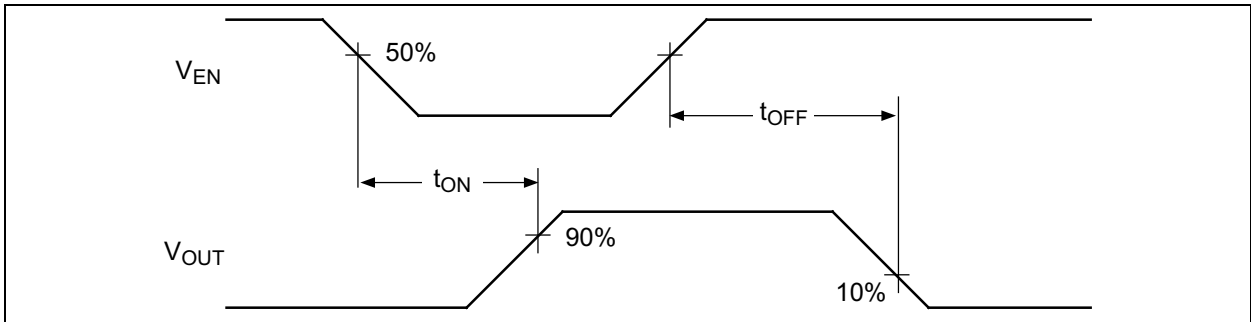


FIGURE 1-3: Active-Low Switch Delay Times (MIC20x6A-2).

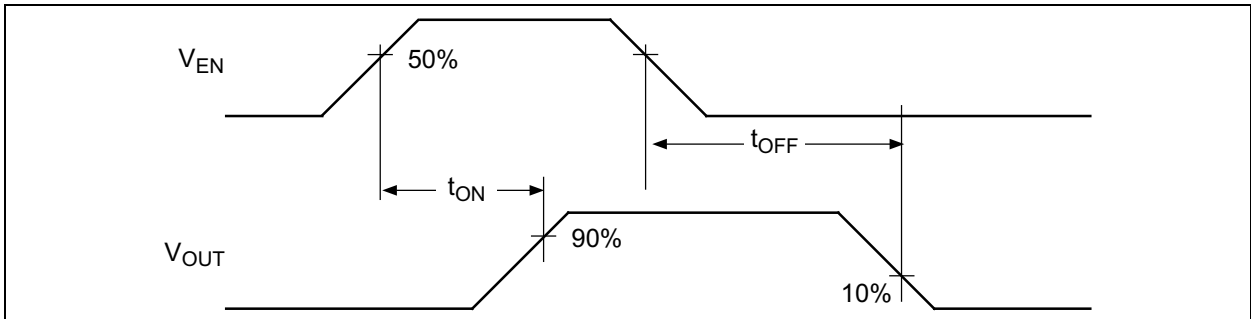


FIGURE 1-4: Active-High Switch Delay Time (MIC20x6A-1).

MIC2026A/76A

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.

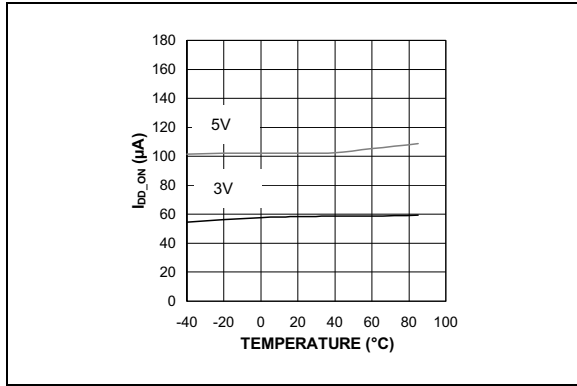


FIGURE 2-1: I_{DD_ON} vs. Temperature.

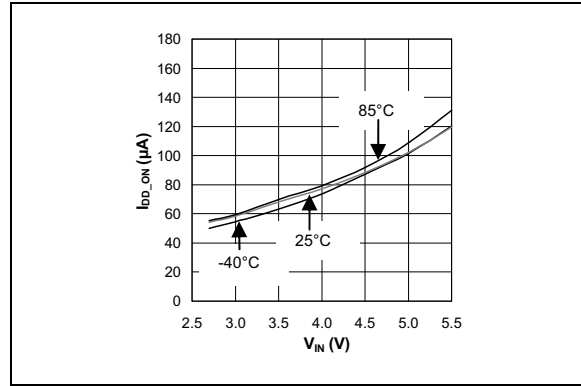


FIGURE 2-4: I_{DD_ON} vs. V_{IN} .

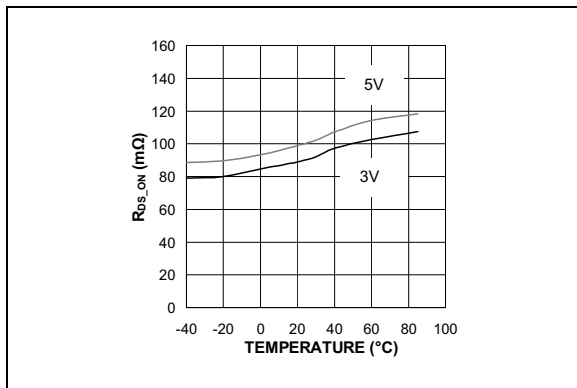


FIGURE 2-2: R_{DS_ON} vs. Temperature.

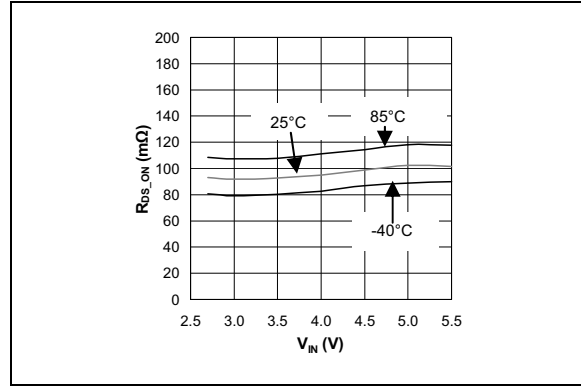


FIGURE 2-5: R_{DS_ON} vs. V_{IN} .

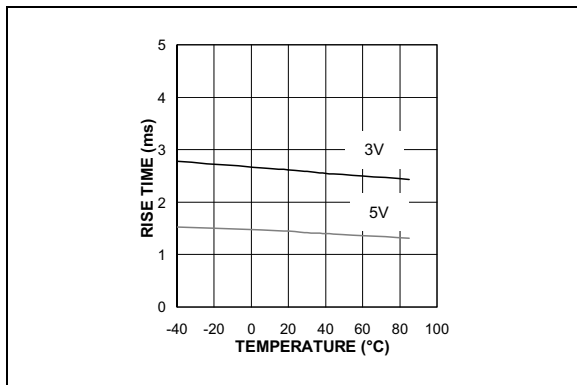


FIGURE 2-3: Output Rise Time vs. Temperature.

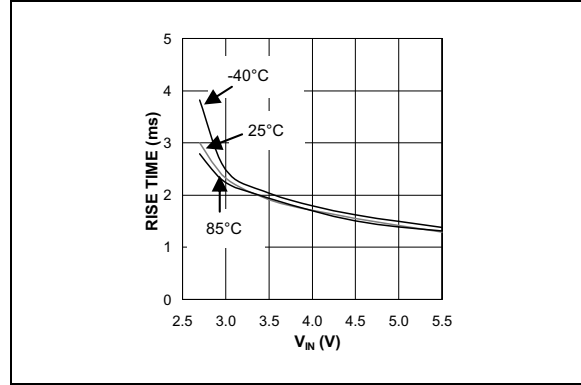


FIGURE 2-6: Output Rise Time vs. V_{IN} .

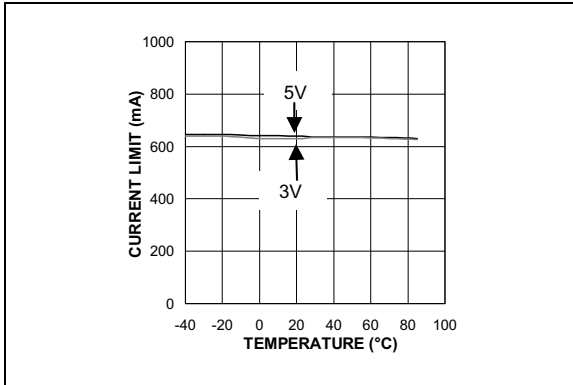


FIGURE 2-7: Short-Circuit Current Limit vs. Temperature.

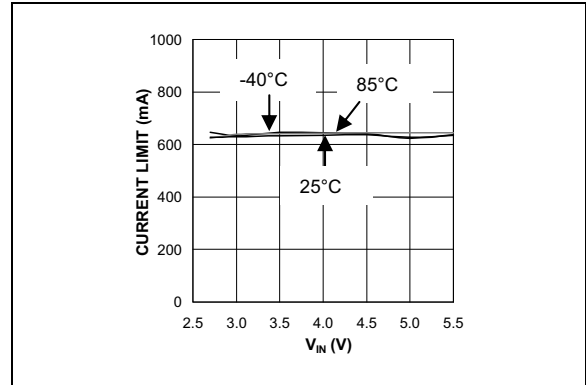


FIGURE 2-10: Short-Circuit Current Limit vs. V_{IN} .

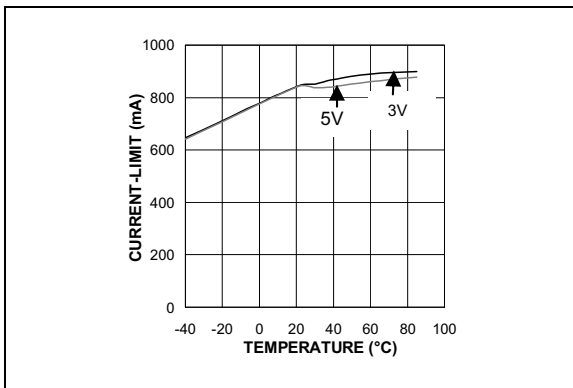


FIGURE 2-8: Current Limit Threshold vs. Temperature.

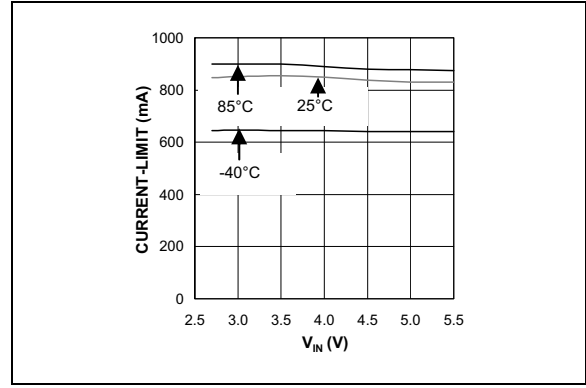


FIGURE 2-11: Current Limit Threshold vs. V_{IN} .

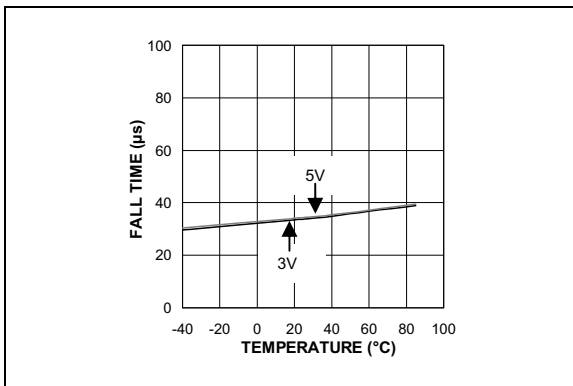


FIGURE 2-9: Output Fall Time vs. Temperature.

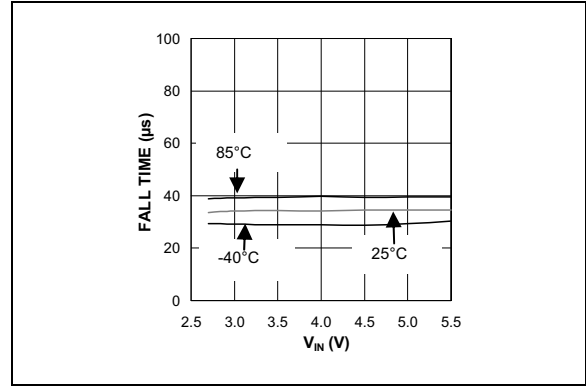


FIGURE 2-12: Output Fall Time vs. V_{IN} .

MIC2026A/76A

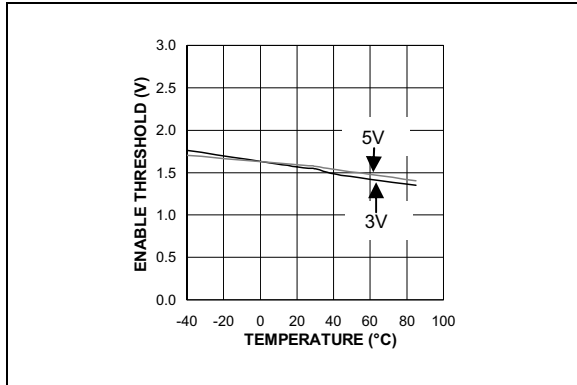


FIGURE 2-13: Enable Threshold vs. Temperature.

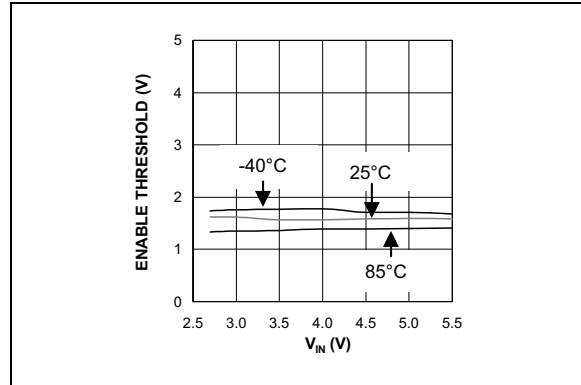


FIGURE 2-16: Enable Threshold vs. V_{IN} .

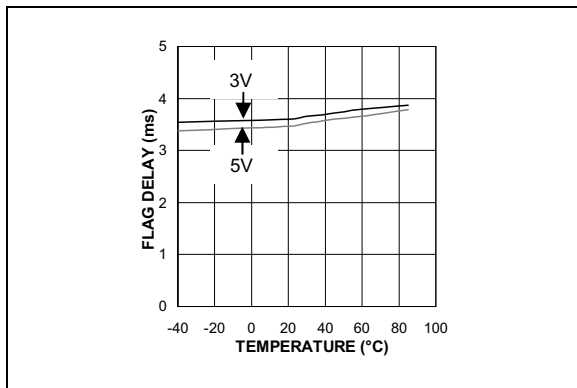


FIGURE 2-14: Overcurrent Flag Delay vs. Temperature.

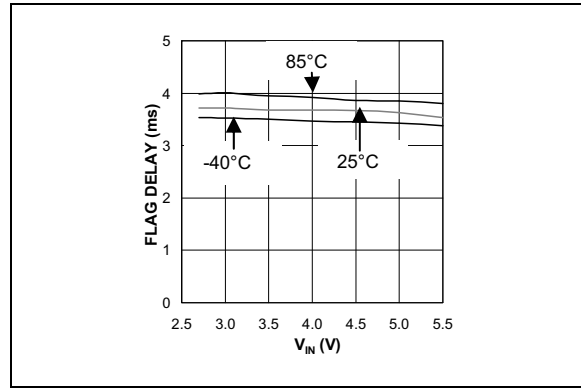


FIGURE 2-17: Overcurrent Flag Delay vs. V_{IN} .

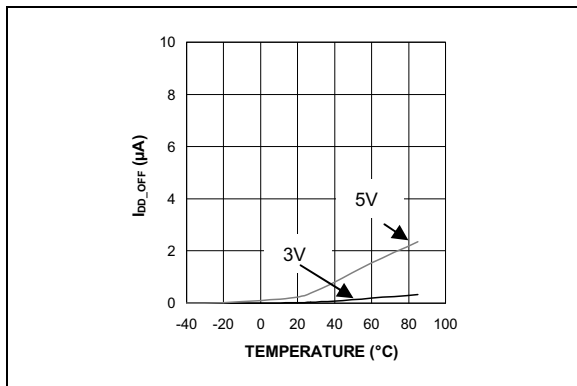


FIGURE 2-15: I_{DD_OFF} vs. Temperature.

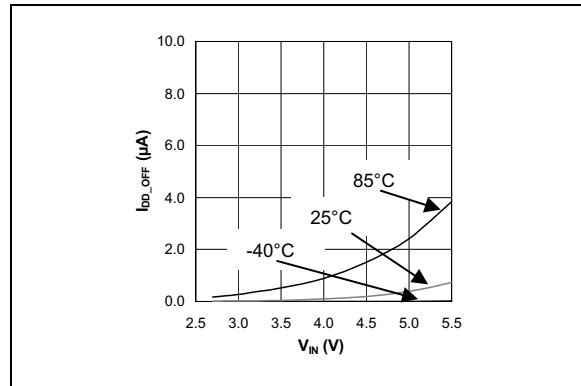


FIGURE 2-18: I_{DD_OFF} vs. V_{IN} .

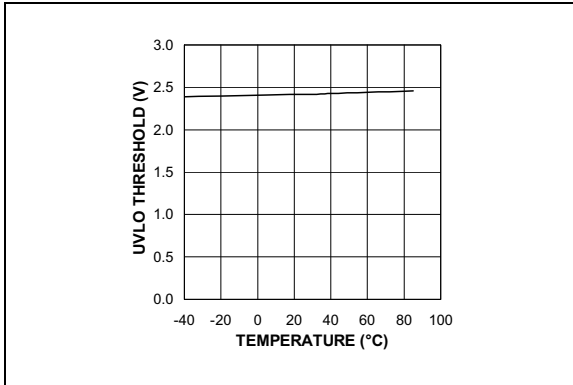


FIGURE 2-19: UVLO Threshold vs. Temperature.

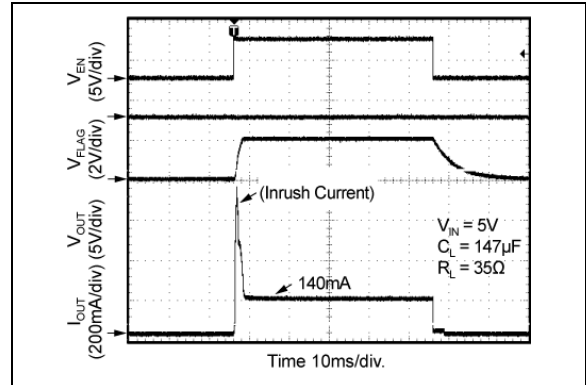


FIGURE 2-22: Turn-On/Turn-Off (MIC2026A-1).

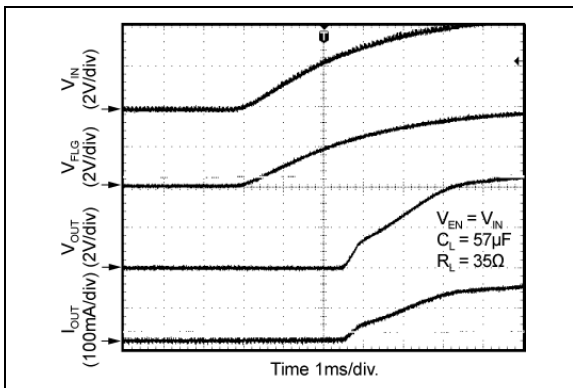


FIGURE 2-20: Soft-Start V_{IN} Turn-On.

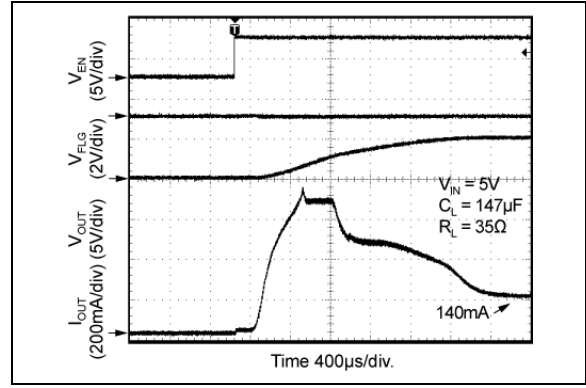


FIGURE 2-23: Turn-On Zoom (MIC2026A-1).

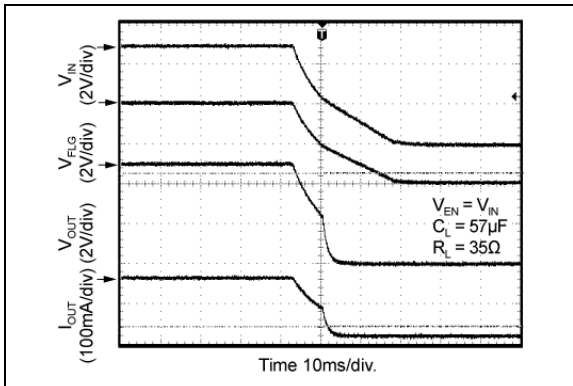


FIGURE 2-21: V_{IN} Turn-Off.

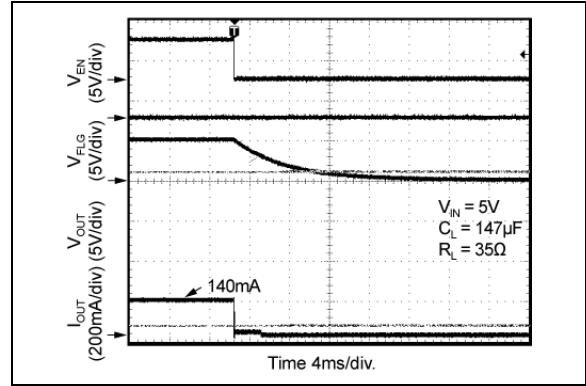


FIGURE 2-24: Turn-Off Zoom (MIC2026A-1).

MIC2026A/76A

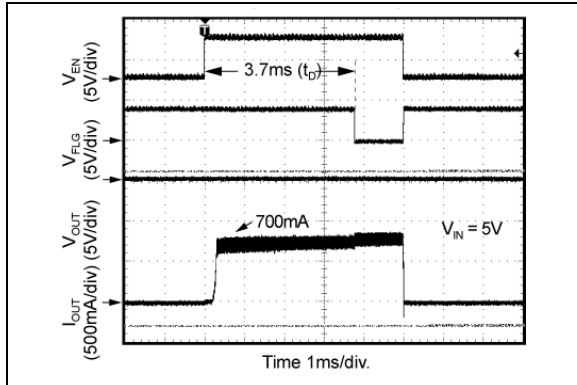


FIGURE 2-25: Enabled into Short (MIC2026A-1).

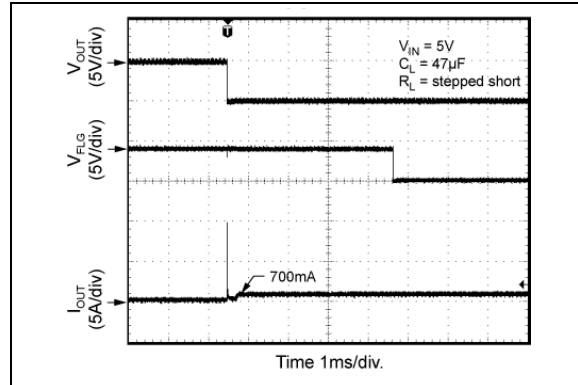


FIGURE 2-28: Current Limit Response, Stepped Short.

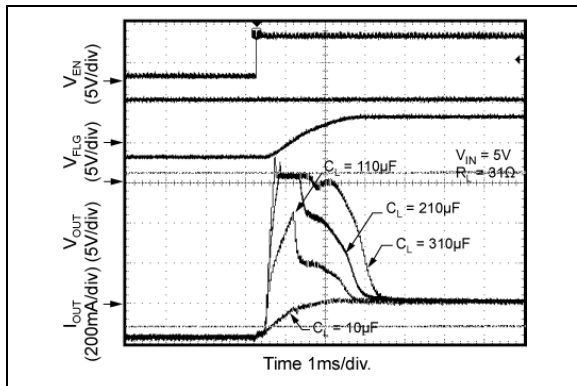


FIGURE 2-26: Inrush Current Response (MIC2026A-1).

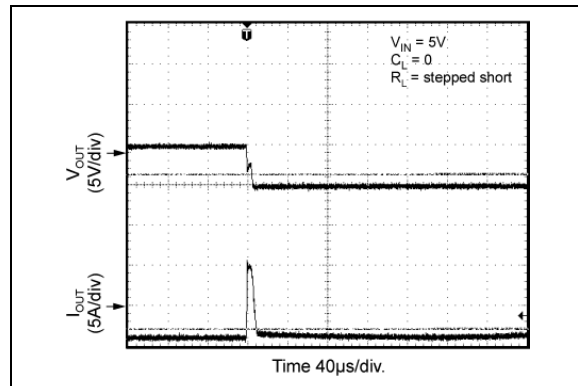


FIGURE 2-29: Current Limit Threshold, Zoom.

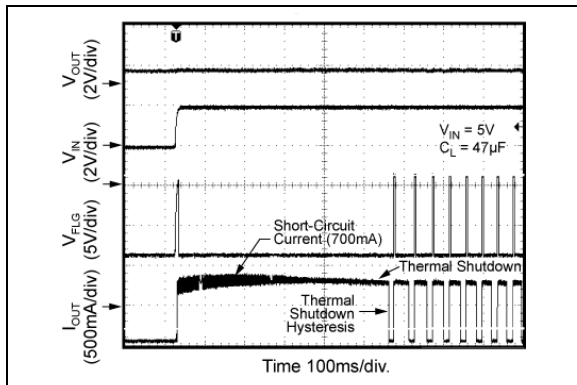


FIGURE 2-27: Current Limit Response, Output Short.

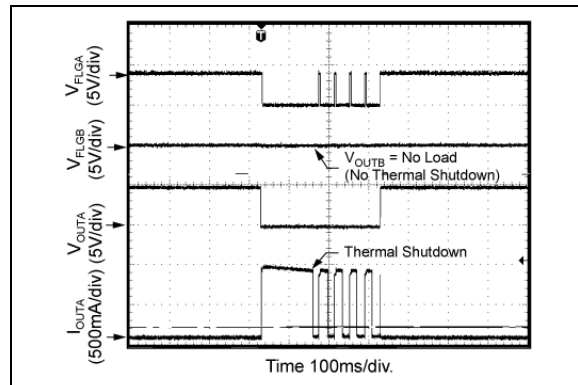


FIGURE 2-30: Independent Thermal Shutdown, OUTA.

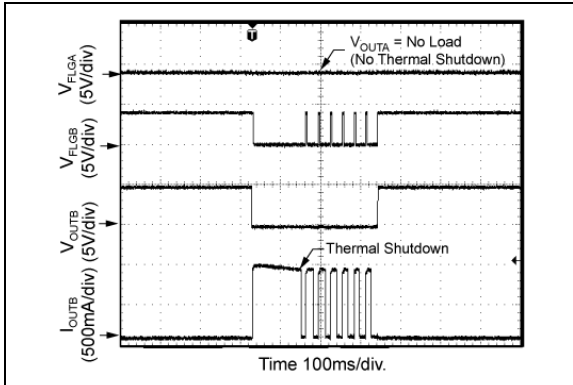


FIGURE 2-31: Independent Thermal Shutdown, OUTB.

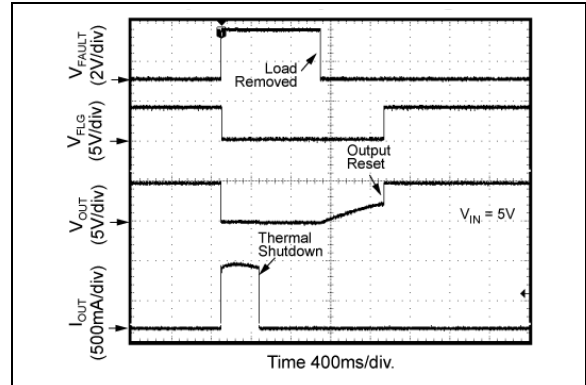


FIGURE 2-34: Thermal Shutdown MIC2076A: Output Reset by Removing Load.

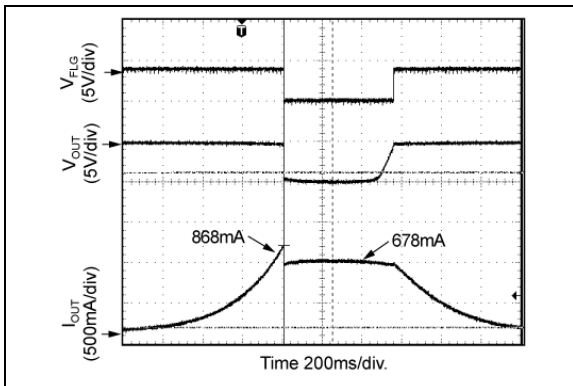


FIGURE 2-32: Current Limit Threshold.

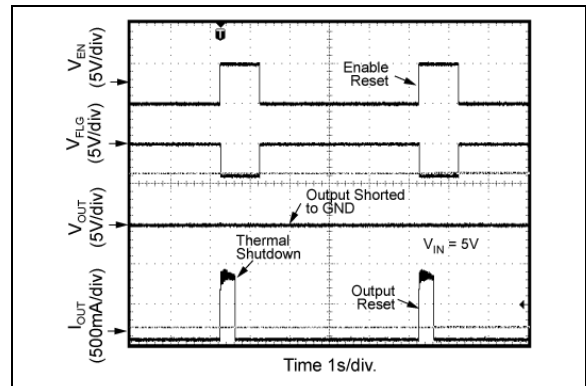


FIGURE 2-35: Thermal Shutdown MIC2076A-1: Output Reset by Enable.

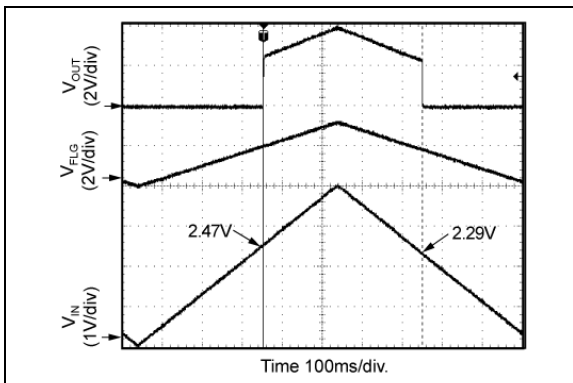


FIGURE 2-33: UVLO.

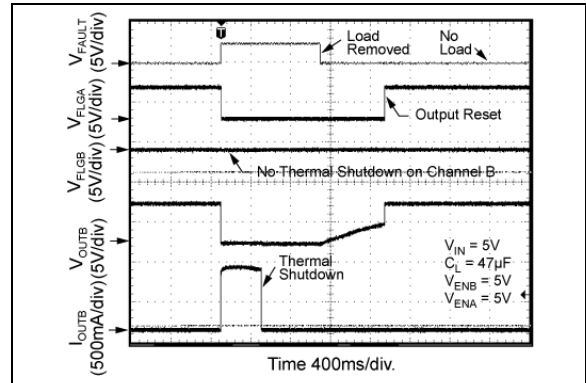


FIGURE 2-36: Independent Thermal Shutdown A MIC2076A-1.

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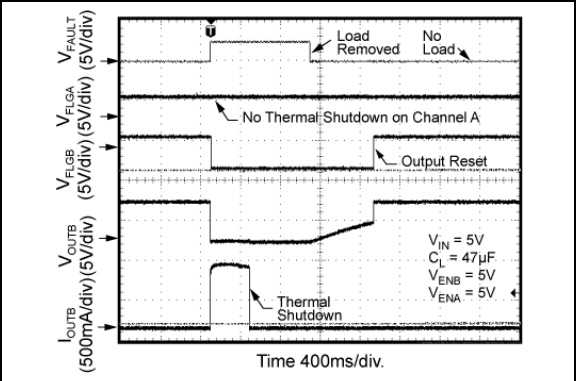


FIGURE 2-37: Independent Thermal Shutdown B MIC2076A-1.

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	ENA	Switch A Enable (Input): Logic-compatible, enable input. Active-high (-1) or active-low (-2).
2	FLGA	Fault Flag A (Output): Active-low, open-drain output. A logic LOW state Indicates overcurrent or thermal shutdown conditions. Overcurrent conditions must last longer than t_{BDB} in order to assert FLGA. The FLGA pin can be left floating; however, fault reporting information will be lost.
3	FLGB	Fault Flag B (Output): Active-low, open-drain output. A logic LOW state indicates overcurrent or thermal shutdown conditions. Overcurrent conditions must last longer than t_{BDB} in order to assert FLGB. The FLGB pin can be left floating; however, fault reporting information will be lost.
4	ENB	Switch B Enable (Input): Logic-compatible enable input. Active-high (-1) or active-low (-2).
5	OUTB	Switch B (Output).
6	GND	Ground.
7	IN	Input: Switch and logic supply input.
8	OUTA	Switch A (Output).

MIC2026A/76A

4.0 FUNCTIONAL DESCRIPTION

4.1 Input and Output

IN is the power supply connection to the logic circuitry and the drain of the output MOSFET. OUT is the source of the output MOSFET. In a typical circuit, current flows from IN to OUT toward the load when the switch is enabled.

An important consideration in choosing a switch is whether it has reverse voltage protection. This is accomplished by eliminating the body diode during the fabrication process. Reverse voltage protection is important when the switch is disabled and a voltage is presented to the OUT pin that is greater than the V_{IN} pin voltage. The reverse voltage protection prevents current flow in the reverse path from OUT to IN.

On other hand, when the switch is enabled the switch is bidirectional. In this case, when a voltage is presented to the OUT pin that is greater than the V_{IN} voltage, current will flow from OUT to IN.

4.2 Thermal Shutdown

Thermal shutdown is employed to protect the device from damage should the die temperature exceed safe margins due mainly to short-circuit faults. Each channel employs its own thermal sensor. Thermal shutdown shuts off the output MOSFET and asserts the FLG output if the die temperature reaches 140°C and the overheated channel is in current-limit. The other channel is not affected. If, however, the die temperature exceeds 160°C, both channels will be shut off.

The MIC2026A will automatically reset its output when the die temperature cools down to 120°C. The MIC2026A's output and FLG signal will continue to cycle on and off until the device is disabled or the fault is removed. [Figure 4-1](#) depicts typical timing.

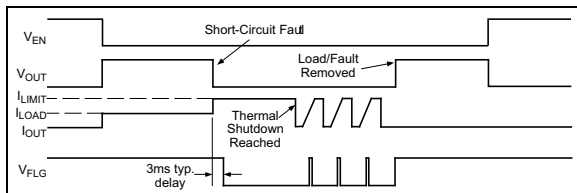


FIGURE 4-1: MIC2026A Fault Timing.

On the other hand, the MIC2076A's output will be turned off, and remain off, until the MIC2076A is reset. This is often called latched output; that is, the output is "latched" off and stays off. This is different from the MIC2026A's output that will cycle on and off. The MIC2076A will latch off the output when the MIC2076A is in current-limiting and the switch goes in to thermal shutdown. Upon entering thermal shutdown, the output

will be immediately latched off. The MIC2076A (latched output) can be reset by any of the following three methods:

1. Remove the fault load.
2. Toggle the EN (Enable) pin.
3. Cycle IN (input power supply).

Resetting the MIC2076A will return it to normal operation. Depending on PCB layout, package, ambient temperature, etc., it may take several hundred milliseconds from the incidence of the fault to the output MOSFET being shut off. This time will be shortest in the case of a dead short on the output.

4.3 Power Dissipation

The device's junction temperature depends on several factors such as the load, PCB layout, ambient temperature, and package type. Equations that can be used to calculate power dissipation of each channel and junction temperature are found below:

EQUATION 4-1:

$$P_D = R_{DS(ON)} \times I_{OUT}^2$$

Total power dissipation of the device will be the summation of P_D for both channels. To relate this to junction temperature, the following equation can be used:

EQUATION 4-2:

$$T_J = P_D \times \theta_{JA} + T_A$$

Where:
 T_J = Junction temperature.
 T_A = Ambient temperature.
 θ_{JA} = Thermal resistance of the package.

4.4 Current Sensing and Limiting

The current-limit threshold is preset internally. The preset level prevents damage to the device and external load, but still allows a minimum current of 500 mA to be delivered to the load.

The current-limit circuit senses a portion of the output MOSFET switch current. The current-sense resistor shown in the [Functional Block Diagram](#) is virtual and has no voltage drop. The reaction to an overcurrent condition varies with three scenarios:

- **Switch Enabled into Short-Circuit:** If a switch is enabled into a heavy load or short-circuit, the

switch immediately enters into a constant current mode, reducing the output voltage. The FLG signal is asserted indicating an overcurrent condition.

- Short-Circuit Applied to Enabled Output:**
 When a heavy load or short-circuit is applied to an enabled switch, a large transient current may flow until the current-limit circuitry responds. Once this occurs, the device limits current to the short-circuit current limit specification.
- Current-Limit Response:** The MIC2026A/2076A current-limit response is often called the foldback current-limit. The foldback current-limit is the current limit reached when the output current is increased slowly rather than abruptly. An approximation of slowly is tens of milliamps per second. The foldback current-limit is typical 200 mA higher than the short-circuit current limit. When the foldback current-limit is reached, the output current will abruptly decrease to the short-circuit current limit.

4.5 Fault Flag

The FLG signal is an N-Channel open-drain MOSFET output. FLG is asserted (active-low) when either an overcurrent or thermal shutdown condition occurs. In the case of an overcurrent condition, FLG will be asserted only after the flag response delay time, t_D , has elapsed. This ensures that FLG is asserted only upon valid overcurrent conditions and that erroneous error reporting is eliminated. For example, false overcurrent conditions can occur during hot plug events when a highly capacitive load is connected and causes a high transient inrush current that exceeds the current-limit threshold for up to 1 ms. The FLG response delay time t_D is typically 3 ms.

4.6 Undervoltage Lockout

Undervoltage lockout (UVLO) prevents the output MOSFET from turning on until V_{IN} exceeds approximately 2.45V. Undervoltage detection functions only when the switch is enabled.

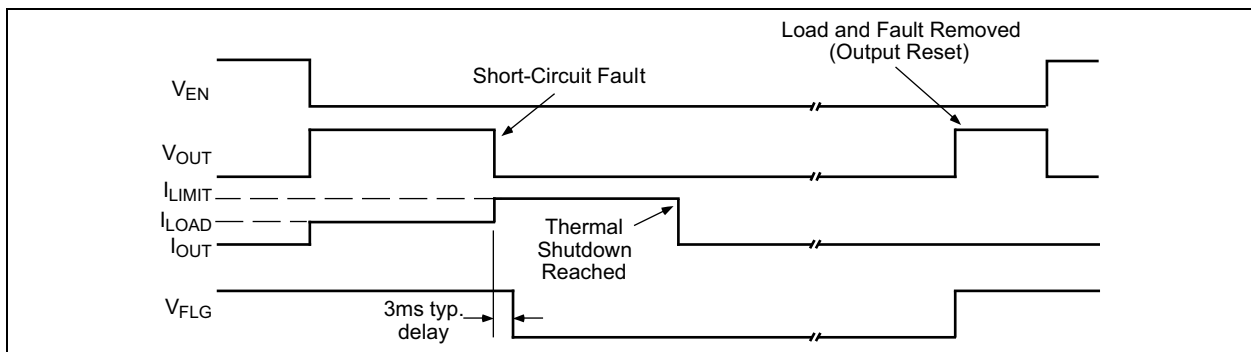


FIGURE 4-2: MIC2076A Fault Timing: Output Reset by Removing Load.

MIC2026A/76A

5.0 APPLICATION INFORMATION

5.1 Supply Filtering

A 0.1 μF to 1 μF bypass capacitor positioned close to the IN and GND pins of the device is strongly recommended to control supply transients. Without a bypass capacitor, an output short may cause sufficient ringing on the input (from supply lead inductance) to damage internal control circuitry.

5.2 Printed Circuit Board Hot-Plug

The MIC2026A/2076A are ideal inrush current-limiters for hot-plug applications. Due to their integrated charge pumps, the MIC2026A/2076A present a high impedance when off and slowly become a low impedance as their integrated charge pumps turn on. This soft-start feature effectively isolates power supplies from highly capacitive loads by reducing inrush current. Figure 5-1 shows how the MIC2026A may be used in a card hot-plug application.

In cases of extremely large capacitive loads ($>400 \mu\text{F}$), the length of the transient due to inrush current may exceed the delay provided by the integrated filter. Because this inrush current exceeds the current-limit delay specification, FLG will be asserted during this time. To prevent the logic controller from responding to FLG being asserted, an external RC filter, as shown in Figure 5-2, can be used to filter out transient FLG assertion. The value of the RC time constant should be selected to match the length of the transient, less $t_{D(\text{MIN})}$ of the MIC2026A/2076A.

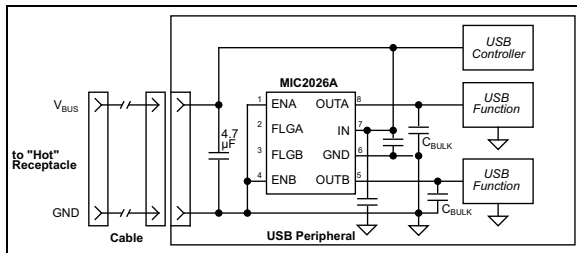


FIGURE 5-1: Hot-Plug Application.

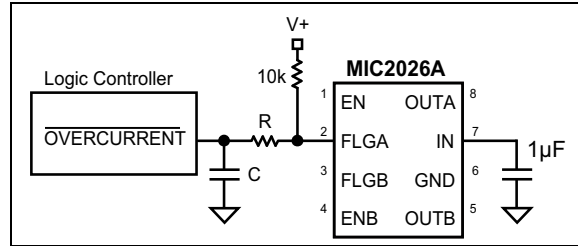


FIGURE 5-2: Transient Filter.

5.3 Universal Serial Bus (USB) Power Distribution

The MIC2026A/2076A are ideally suited for USB (Universal Serial Bus) power distribution applications. The USB specification defines power distribution for USB host systems such as PCs and USB hubs. Hubs can either be self-powered or bus-powered (that is, powered from the bus). Figure 5-3 shows a typical USB Host application that may be suited for mobile PC applications employing USB. The requirement for USB host systems is that the port must supply a minimum of 500 mA at an output voltage of $5\text{V} \pm 5\%$. In addition, the output power delivered must be limited to below 25 VA. Upon an overcurrent condition, the host must also be notified. To support hot-plug events, the hub must have a minimum of 120 μF of bulk capacitance, preferably low ESR electrolytic or tantalum. Please refer to Application Note 17 for more details on designing compliant USB hub and host systems.

For bus-powered hubs, USB requires that each downstream port be switched on or off under control by the host. Up to four downstream ports each capable of supplying 100 mA at 4.4V minimum are allowed. In addition, to reduce voltage droop on the upstream V_{BUS} , soft-start is necessary. Although the hub can consume up to 500 mA from the upstream bus, the hub must consume only 100 mA max at start-up, until it enumerates with the host prior to requesting more power. The same requirements apply for bus-powered peripherals that have no downstream ports. Figure 5-4 shows a bus-powered hub.

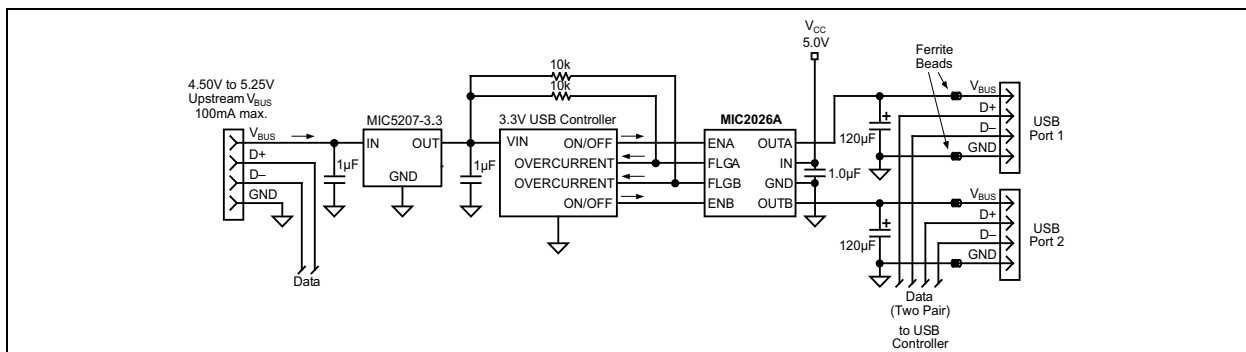


FIGURE 5-3: USB Two-Port Host Application.

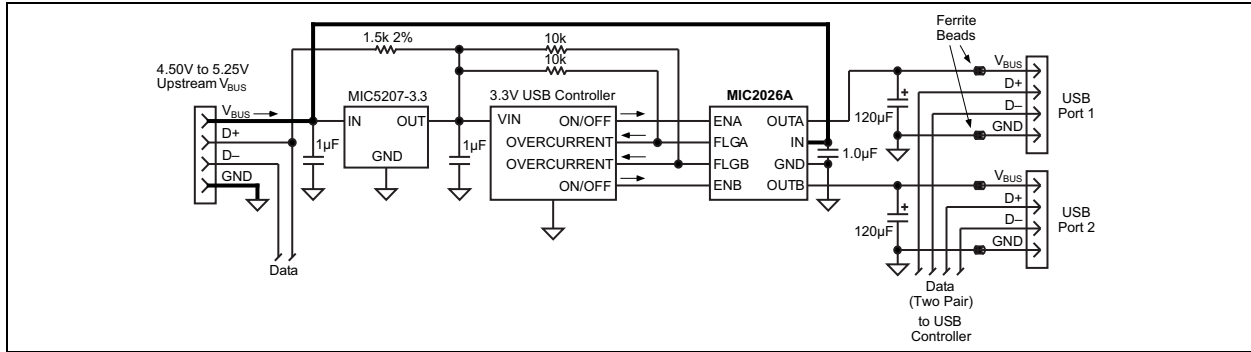
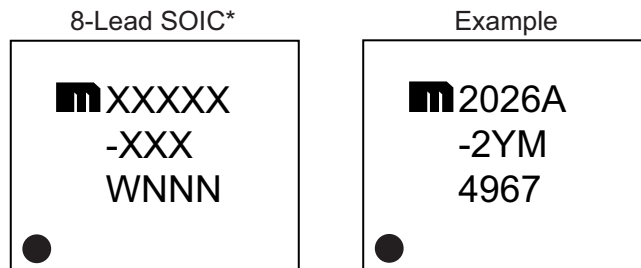


FIGURE 5-4: USB Two-Port Bus-Powered Hub.

MIC2026A/76A

6.0 PACKAGING INFORMATION

6.1 Package Marking Information



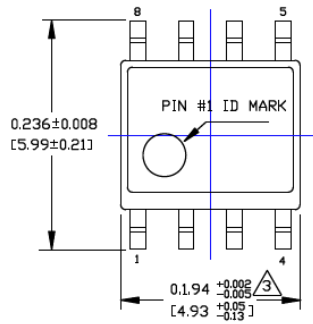
<p>Legend: XX...X Product code or customer-specific information Y Year code (last digit of calendar year) YY Year code (last 2 digits of calendar year) WW Week code (week of January 1 is week '01') NNN Alphanumeric traceability code Ⓔ3 Pb-free JEDEC® designator for Matte Tin (Sn) * This package is Pb-free. The Pb-free JEDEC designator (Ⓔ3) can be found on the outer packaging for this package.</p> <p>●, ▲, ▼ Pin one index is identified by a dot, delta up, or delta down (triangle mark).</p>
<p>Note: In the event the full Microchip part number cannot be marked on one line, it will be carried over to the next line, thus limiting the number of available characters for customer-specific information. Package may or may not include the corporate logo.</p> <p>Underbar (¯) and/or Overbar (˘) symbol may not be to scale.</p>

8-Lead SOIC Package Outline and Recommended Land Pattern

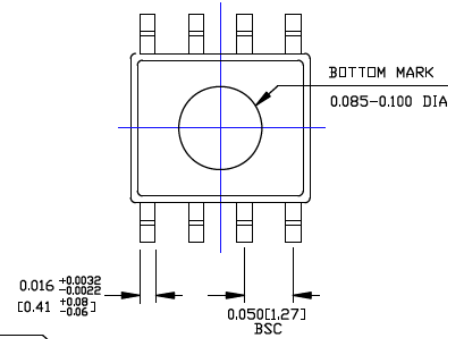
TITLE

8 LEAD SOICN PACKAGE OUTLINE & RECOMMENDED LAND PATTERN

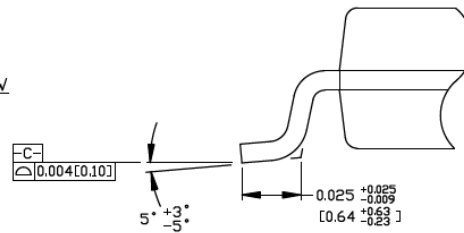
DRAWING #	SOICN-8LD-PL-1	UNIT	INCH [MM]
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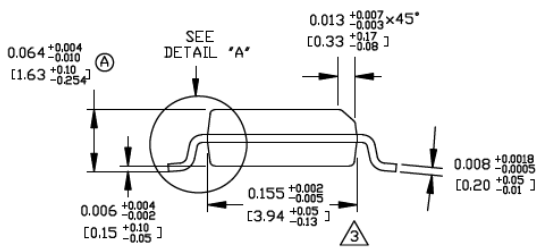
TOP VIEW



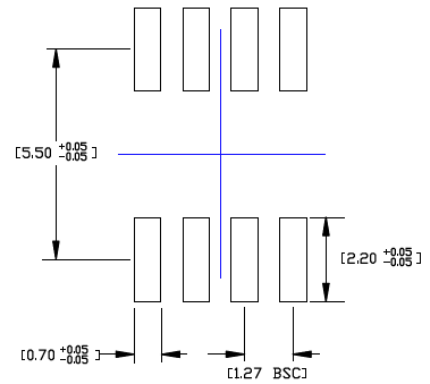
BOTTOM VIEW



DETAIL "A"



END VIEW



RECOMMENDED LAND PATTERN

NOTES:

1. DIMENSIONS ARE IN INCHES[MM].
2. CONTROLLING DIMENSION: INCHES.
3. DIMENSION DOES NOT INCLUDE MOLD FLASH OR PROTRUSIONS, EITHER OF WHICH SHALL NOT EXCEED 0.010[0.25] PER SIDE.

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>.

MIC2026A/76A

NOTES:

APPENDIX A: REVISION HISTORY

Revision A (November 2021)

- Converted Micrel document MIC2026A/76A to Microchip data sheet DS20006608A.
- Minor text changes throughout.

MIC2026A/76A

NOTES:

PRODUCT IDENTIFICATION SYSTEM

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

<u>PART No.</u>	<u>-X</u>	<u>X</u>	<u>X</u>	<u>-XX</u>	Examples:
Device	Enable	Junction Temp. Range	Package	Media Type	
Device:	MIC2026A:	Dual-Channel Power Distribution Switch			a) MIC2026A-1YM: Dual-Channel Power Distribution Switch, Active-High Enable, -40°C to +85°C Temp. Range, 8-Lead SOIC, 95/Tube
	MIC2076A:	Dual-Channel Power Distribution Switch with Circuit Breaker Mode			b) MIC2026A-2YM-TR: Dual-Channel Power Distribution Switch, Active-Low Enable, -40°C to +85°C Temp. Range, 8-Lead SOIC, 2,500/Reel
Enable:	-1	= Active-High			c) MIC2076A-2YM: Dual-Channel Power Distribution Switch with Circuit Breaker Mode, Active-Low Enable, -40°C to +85°C Temp. Range, 8-Lead SOIC, 95/Tube
	-2	= Active-Low			d) MIC2076A-1YM-TR: Dual-Channel Power Distribution Switch with Circuit Breaker Mode, Active-High Enable, -40°C to +85°C Temp. Range, 8-Lead SOIC, 2,500/ Reel
Junction Temperature Range:	Y	= -40°C to +85°C			Note 1: Tape and Reel identifier only appears in the catalog part number description. This identifier is used for ordering purposes and is not printed on the device package. Check with your Microchip Sales Office for package availability with the Tape and Reel option.
Package:	M	= 8-Lead SOIC			
Media Type:	(blank)	= 95/Tube			
	TR	= 2,500/Reel			

MIC2026A/76A

NOTES:

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