

FEATURES

- Precision supply voltage monitor
 2.63 V (CBM706P, CBM706R, CBM708R)
 2.93 V (CBM706S, CBM708S)
 3.08 V (CBM706T, CBM708T)
- 100μA quiescent current
- 200ms reset pulse width
- Debounced manual reset input (MR)
- Independent watchdog timer
- 1.6 sec timeout (CBM706P, CBM706R, CBM706S, CBM706T)
- Voltage monitor for power fail or low battery warning
- Guaranteed RESET valid with VCC = 1 V
- Superior upgrade for ADM706P/R/S/T, ADM708R/S/T

APPLICATIONS

- Microprocessor systems
- Computers
- Controllers
- Intelligent instruments
- Critical microprocessor monitoring
- Battery operated systems
- Portable instruments

GENERAL DESCRIPTION

The CBM706P/ CBM706R/ CBM706S/ CBM706T and the CBM708R/ CBM708S / CBM708T microprocessor supervisory circuits are suitable for monitoring either 3V or 3.3V power supplies.

The CBM706P/ CBM706R/ CBM706S/ CBM706T provide power supply monitoring circuitry that generate a reset output during power-up, power-down, and brownout conditions. The reset output remains operational with V_{CC} as low as 1V.

Independent watchdog monitoring circuitry is also provided. This activates if the watchdog input does not toggle within 1.6 sec.

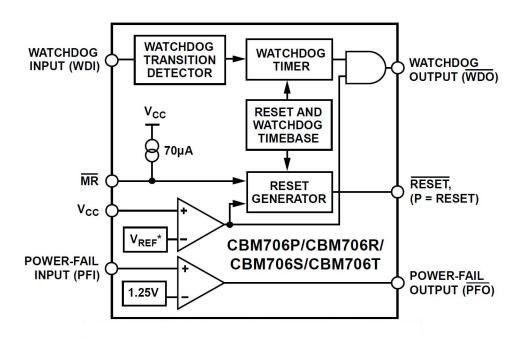
In addition, there is a 1.25V threshold detector for a power fail warning, low battery detection, or to monitor an additional power supply. An active low debounced $\overline{\text{MR}}$ input is also included.

The CBM706R, CBM706S, and CBM706T are identical except for the reset threshold monitor levels, which are 2.63V, 2.93V, and 3.08V, respectively. The CBM706P is identical to the CBM706R in that the reset threshold is 2.63V. It differs only in that it has an active high reset output.

The CBM708R/ CBM708S/ CBM708T provide similar functio-nality as the CBM706R/CBM706S/CBM706T and only differ in that a watchdog timer function is not available. Instead, an active high reset output (RESET) is provided in addition to the active low (RESET) output.

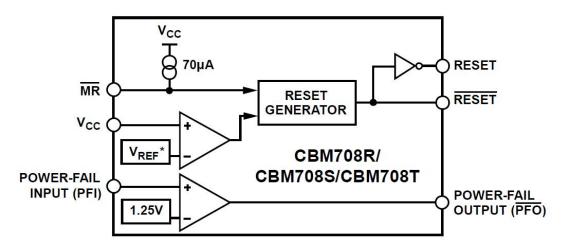
All devices are available in narrow 8-lead PDIP and 8-lead SOIC packages.

FUNCTIONAL BLOCK DIAGRAMS



*VOLTAGE REFERENCE = 2.63V (P/R), 2.93V (S), 3.08V (T)

Figure 1. CBM706P/CBM706R/CBM706S/CBM706T



* VOLTAGE REFERENCE = 2.63V (R), 2.93V (S), 3.08V (T)

Figure 2. CBM708R/CBM708S/CBM708T



SPECIFICATIONS

 $V_{CC}=2.70~V~to~5.5~V~(CBM706P/CBM706R/CBM708R), V_{CC}=3.00~V~to~5.5~V~(CBM70XS), V_{CC}=3.15~V~to~5.5~V~(CBM70XT), T_A=T_{MIN}~to~T_{MAX}~unless~otherwise~noted.$

Table 1.

Parameter	Min	Тур	Max	Unit	Test Conditions/Comments
POWER SUPPLY					
V _{CC} Operating Voltage Range	1.0		5.5	V	
Supply Current		100	200	μΑ	V _{cc} < 3.6 V
			150	μΑ	V _{cc} < 5.5 V
LOGIC OUTPUT	•				
Reset Threshold(V _{RST})	2.55	2.63	2.70	V	CBM706P/CBM706R/CBM708R
	2.85	2.93	3.00	V	CBM706S/CBM708S
	3.00	3.08	3.15	V	CBM706T/CBM708T
Reset Threshold Hysteresis		20		mV	
RESET PULSE WIDTH	160	200	280	ms	CBM706P/CBM706R/CBM708R, V _{CC} =3V
					V _{CC} = 3.3 V
		200		ms	V _{CC} = 5.0 V
RESET OUTPUT VOLTAGE (CBM	1706R/CBM708R	/CBM706	S/CBM7	08S/CBN	//706T/CBM708T)
V _{OH}	0.8 × V _{CC}			V	$V_{RST}(max) < V_{CC} < 3.6V$, $I_{SOURCE} = 500\mu A$
V _{OL}			0.3	V	$V_{RST}(max) < V_{CC} < 3.6V$, $I_{SINK} = 1.2mA$
V _{OH}	V _{CC} −1.5V			V	$4.5V < V_{CC} < 5.5V$, $I_{SOURCE} = 800 \mu A$
V_{OL}			0.4	V	$4.5V < V_{CC} < 5.5V$, $I_{SINK} = 3.2 \text{ mA}$
V_{OL}			0.3	V	$V_{CC}=1V$, $I_{SINK}=100\mu A$
RESET OUTPUT VOLTAGE (CBM	1706P)				
V_{OH}	V _{CC} -0.6 V			V	$V_{RST}(max) < V_{CC} < 3.6V, I_{SOURCE} = 215\mu A$
V_{OL}			0.3	V	$V_{RST}(max) < V_{CC} < 3.6V$, $I_{SINK} = 1.2mA$
V_{OH}	V _{CC} -1.5V			V	4.5V < V _{CC} < 5.5V, I _{SOURCE} = 800μA
V_{OL}			0.4	V	4.5V < V _{CC} < 5.5V, I _{SINK} = 3.2mA
RESET OUTPUT VOLTAGE (CBM	708R/CBM708S/	СВМ708	T)		
V _{OH}	0.8 × V _{CC}			V	$V_{RST}(max) < V_{CC} < 3.6V, I_{SOURCE} = 500\mu A$
V _{OL}			0.3	V	$V_{RST}(max) < V_{CC} < 3.6V, I_{SINK} = 500 \mu A$
V_{OH}	V _{CC} -1.5V			V	4.5V <v<sub>CC<5.5V, I_{SOURCE}=800μA</v<sub>
V _{OL}			0.4	V	4.5V <v<sub>CC<5.5V, I_{SINK}=1.2mA</v<sub>
WATCHDOG INPUT (CBM706P)	CBM706R/CBM7	706S/CBI	И706T)		
Watchdog Timeout Period	1.00	1.60	2.25	sec	CBM706P/CBM706R: V _{CC} =3V
					CBM706S/CBM706T: V _{CC} =3.3V
					V _{IL} =0.4V, V _{IH} =V _{CC} ×0.8 V



WDI Pulse Width	100			ns	V _{RST} (max) <v<sub>CC<3.6 V</v<sub>
	50			ns	4.5V <v<sub>CC<5.5 V</v<sub>
WDI Input Threshold					
V_{IL}			0.6	V	V _{RST} (max) <v<sub>CC<3.6V</v<sub>
V _{IH}	$0.7 \times V_{CC}$			V	V _{RST} (max) <v<sub>CC<3.6V</v<sub>
V _{IL}			0.8	V	V _{CC} =5.0V
V _{IH}	3.5			V	V _{CC} =5.0V
WDI Input Current	-1.0	+0.02	+1.0	μΑ	WDI=0V or V _{CC}
WDO OUTPUT VOLTAGE					
V _{OH}	0.8×V _{CC}			V	$V_{RST}(max) < V_{CC} < 3.6V, I_{SOURCE} = 500\mu A$
	V _{CC} -1.5V			V	4.5V <v<sub>CC<5.5V, I_{SOURCE}=800μA</v<sub>
V _{OL}			0.3	V	V _{RST} (max) <v<sub>CC<3.6V, I_{SINK}=500μA</v<sub>
			0.6	V	4.5V <v<sub>CC<5.5V, I_{SINK}=1.2mA</v<sub>
MANUAL RESET INPUT					
MR Pull-Up Current (MR=0V)	25	70	250	μA	$V_{RST}(max) < V_{CC} < 3.6V$
	100	250	600	μΑ	4.5V < V _{CC} < 5.5V
MR Pulse Width	500			ns	V _{RST} (max) <v<sub>CC<3.6V</v<sub>
	150			ns	4.5V < V _{CC} < 5.5V
MR INPUT THRESHOLD	·				
V _{IL}			0.6	V	V _{RST} (max) <v<sub>CC<3.6V</v<sub>
V _{IH}	0.7×V _{CC}			V	V _{RST} (max) <v<sub>CC<3.6V</v<sub>
V _{IL}			0.8	V	4.5V < V _{CC} < 5.5V
V _{IH}	2.0			V	4.5V < V _{CC} < 5.5V
MR TO RESET OUTPUT DELAY			750	ns	V _{RST} (max) <v<sub>CC<3.6V</v<sub>
			250	ns	4.5V < V _{CC} < 5.5V
POWER FAIL INPUT					
PFI Input Threshold	1.2	1.25	1.3	V	CBM706P/CBM706R/CBM708R,
					V _{CC} =3V CBM706S/ CBM708S/
DEL Innut Current	25	. 0.01	. 25	A	CBM706T/CBM708T,V _{CC} =3.3V, PFI
PFI Input Current	-25	+0.01	+25	nA	falling
PFO OUTPUT VOLTAGE					
V_{OH}	0.8×V _{CC}			V	$V_{RST}(max) < V_{CC} < 3.6V, I_{SOURCE} = 500\mu A$
V_{OL}			0.3	V	$V_{RST}(max) < V_{CC} < 3.6V, I_{SINK} = 1.2mA$
V_{OH}	V _{cc} −1.5V			V	4.5V <v<sub>CC<5.5V, I_{SOURCE}=800μA</v<sub>
V _{OL}			0.4	V	4.5V <v<sub>CC<5.5V, I_{SINK}=3.2mA</v<sub>



ABSOLUTE MAXIMUM RATINGS

 $T_A = 25$ °C, unless otherwise noted.

Table 2.

Parameter	Rating		
V _{cc}	-0.3V to +6V		
All Other Innuite	-0.3V to		
All Other Inputs	V _{CC} +0.3V		
Input Current			
V _{CC}	20mA		
GND	20mA		
Digital Output Current	20mA		
Power Dissipation, N-8 PDIP	727mW		
$\theta_{ extsf{JA}}$ Thermal Impedance	135°C/W		
Power Dissipation, R-8 SOIC	470mW		
$\theta_{ extsf{JA}}$ Thermal Impedance	110℃/W		
Operating Temperature Range			
Industrial (Version A)	-40℃ to +85℃		
Lead Temperature (Soldering,	300℃		
10 sec)	300 C		
Vapor Phase (60 sec)	215℃		
Infrared (15 sec)	220℃		
Storage Temperature Range	-65℃ to +150℃		
ESD Rating	>4.5kV		

Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied.

Operation beyond the maximum operating conditions for extended periods may affect product reliability.



ESD SENSITIVITY CAUTION

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.



PIN CONFIGURATIONS AND FUNCTION DESCRIPTIONS

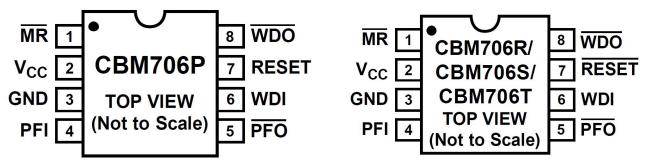


Figure 3. CBM706P

Figure 4. CBM706R/CBM706S/CBM706T

Pin Function Descriptions

Table3. (CBM706P/CBM706R/CBM706S/CBM706T)

Pin No.	Mnemonic	Description			
		Manual Reset Input. When taken below 0.6 V, a RESET/RESET is generated. MR can be			
1	MR	driven from TTL, CMOS logic, or from a manual reset switch because it is internally			
		debounced. An internal 70µA pull-up current holds the input high when floating.			
2	V _{CC}	Power Supply Input. Place a $0.1\mu F$ decoupling capacitor between the V_{CC} and GND pins.			
3	GND	Ground. Ground reference for all signals (0V).			
4	PFI	Power Fail Input. PFI is the noninverting input to the power fail comparator. When PFI less than 1.25V, PFO goes low. If unused, PFI connects to GND.			
5	PFO	Power Fail Output. PFO is the output from the power fail comparator. It goes low when PFI is less than 1.25V.			
6	WDI	Watchdog Input. If WDI remains either high or low for longer than the watchdog timeout period, the watchdog output, WDO, goes low. The timer resets with each transition at the WDI input. Either a high to low or a low to high transition clears the counter. The internal timer is also cleared whenever reset is asserted.			
7 (CBM706R/CBM706S/ CBM706T Only)	RESET	Logic Output. $\overline{\text{RESET}}$ goes low for 200ms when triggered. It is triggered either by V_{CC} being below the reset threshold or by a low signal on the $\overline{\text{MR}}$ input. $\overline{\text{RESET}}$ remains low whenever V_{CC} is below the reset threshold. It remains low for 200ms after V_{CC} goes above the reset threshold or $\overline{\text{MR}}$ goes from low to high. A watchdog timeout does not trigger $\overline{\text{RESET}}$ unless $\overline{\text{WDO}}$ is connected to $\overline{\text{MR}}$.			
7 (CBM706P Only)	RESET	Logic Output. RESET is an active high output suitable for systems that use active high reset logic. It is the inverse of RESET.			
8	WDO	Watchdog Output. $\overline{\text{WDO}}$ goes low if the internal watchdog timer times out as a result of inactivity on the WDI input. It remains low until the watchdog timer is cleared. $\overline{\text{WDO}}$ also goes low during low line conditions. Whenever V_{CC} is below the reset threshold, $\overline{\text{WDO}}$ remains low. As soon as V_{CC} goes above the reset threshold, $\overline{\text{WDO}}$ goes high immediately.			



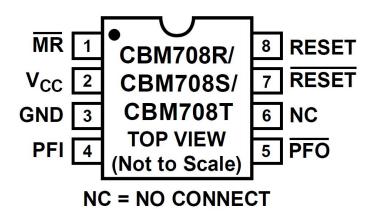


Figure 5. CBM708R/CBM708S/CBM708T

Table 4. (CBM708R/CBM708S/CBM708T)

Pin No.	Mnemonic	Description			
	MR	Manual Reset Input. When taken below 0.6V, a RESET/RESET is generated. MR can be			
1		driven from TTL, CMOS logic, or from a manual reset switch because it is internally			
		debounced. An internal 70µA pull-up current holds the input high when floating.			
2	V _{cc}	Power Supply Input. Place a 0.1 μ F decoupling capacitor between the V_{CC} and GND pins.			
3	GND	Ground. Ground reference for all signals (0V).			
		Power Fail Input. PFI is the noninverting input to the power fail comparator. When PFI is			
4	PFI	less than 1.25V, PFO goes low. If unused, PFI must connect to GND.			
	PFO	Power Fail Output. PFO is the output from the power fail comparator. It goes low when			
5		PFI is less than 1.25V.			
6	NC	No Connect.			
	RESET	Logic Output. RESET goes low for 200ms when triggered. It is triggered either by V _{CC}			
		being below the reset threshold or by a low signal on the MR input. RESET remains low			
7		whenever V_{cc} is below the reset threshold. It remains low for 200ms after V_{cc} goes above			
		the reset threshold or $\overline{\text{MR}}$ goes from low to high. A watchdog timeout does not trigger			
		RESET unless WDO is connected to MR.			
		Logic Output. RESET is an active high output suitable for systems that use active high			
8	RESET	reset logic. It is the inverse of RESET.			



TYPICAL PERFORMANCE CHARACTERISTICS

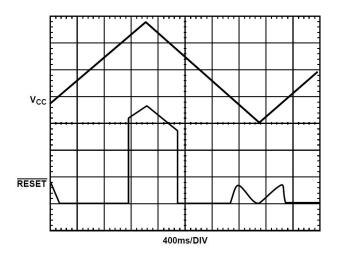


Figure 6. CBM706R/CBM706S/CBM706T and the CBM708R/CBM708S/CBM708T $\overline{\text{RESET}}$ Output Voltage vs. Supply Voltage

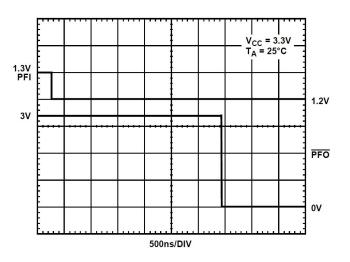


Figure 8. PFI Assertion Response Time

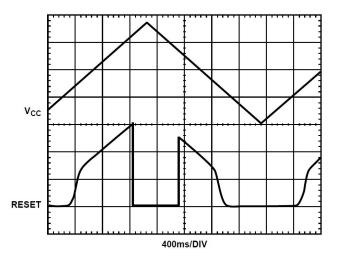


Figure 7. RESET Output Voltage vs. Supply Voltage

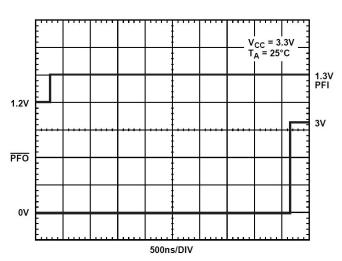


Figure 9. PFI Deassertion Response Time



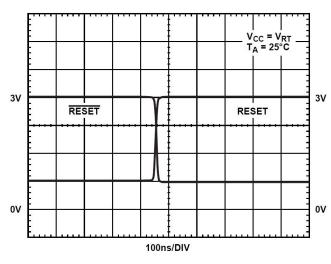


Figure 10. RESET, RESET Assertion

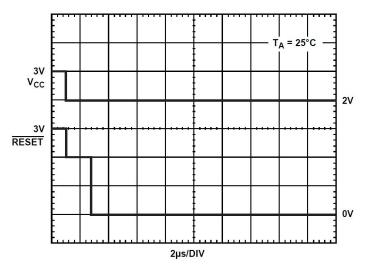


Figure 12. CBM706R/CBM706S/CBM706T and the CBM708R/CBM708S/CBM708T RESET Response Time

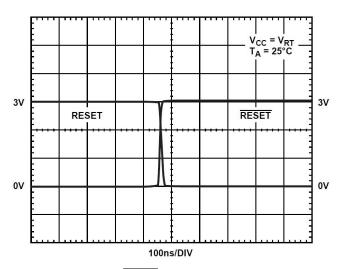
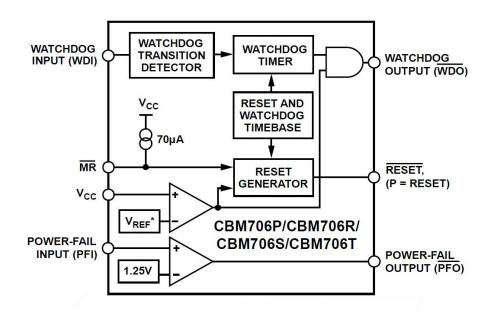


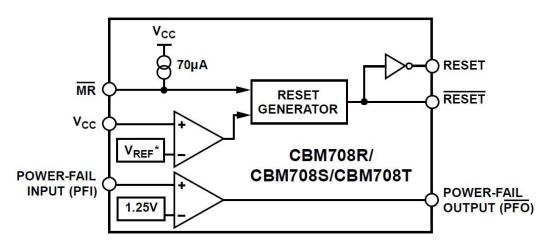
Figure 11. RESET, RESET Deassertion

CIRCUIT INFORMATION



*VOLTAGE REFERENCE = 2.63V (P/R), 2.93V (S), 3.08V (T)

Figure 13. CBM706P/CBM706R/CBM706S/CBM706T Functional Block Diagram



* VOLTAGE REFERENCE = 2.63V (R), 2.93V (S), 3.08V (T)

Figure 14. CBM708R/CBM708S/CBM708T Functional Block Diagram



POWER FAIL RESET OUTPUT

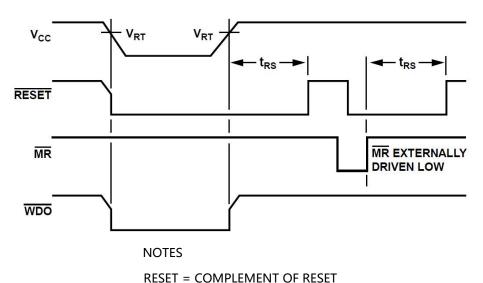
The reset output provides a reset (RESET or \overline{RESET}) output signal to the microprocessor whenever the V_{CC} input is below the reset threshold. The actual reset threshold voltage is dependent on whether a P, R, S, or T suffix device is used. An internal timer holds the reset output active for 200ms after the voltage on V_{CC} rises above the threshold. This is intended as a power-on reset signal for the microprocessor. It allows time for both the power supply and the microprocessor to stabilize after power-up. If a power supply brownout or interruption occurs, the reset line is similarly activated and remains active for 200ms after the supply recovers. If another interruption occurs during an active reset period, the reset timeout period continues for an additional 200ms.

The reset output is guaranteed to remain valid with V_{CC} as low as 1V. This ensures that the microprocessor is held in a stable shutdown condition as the power supply starts up.

The CBM706P provides an active high RESET signal; the CBM706R/CBM706S/CBM706T provide an active low $\overline{\text{RESET}}$ signal; and the CBM708R/CBM706S/CBM706T provide both RESET and $\overline{\text{RESET}}$.

MANUAL RESET

The $\overline{\text{MR}}$ input allows other reset sources, such as a manual reset switch, to generate a processor reset. The input is effectively debounced by the timeout period (200 ms typical). The $\overline{\text{MR}}$ input is TTL-/CMOS-compatible; it can also be driven by any logic reset output. If unused, the $\overline{\text{MR}}$ input can be tied high or left floating.



RESET = COMPLEMENT OF RESET

Figure 15. RESET, MR, and WDO Timing



WATCHDOG TIMER (CBM706P/CBM706R/ CBM706S/CBM706T)

The watchdog timer circuit monitors the activity of the microprocessor to check that it is not stalled in an indefinite loop. An output line on the processor is used to toggle the watchdog input (WDI) line. If this line is not toggled within the timeout period (1.6 sec), the watchdog output (\overline{WDO}) is driven low. The \overline{WDO} output is connected to a nonmaskable interrupt (NMI) on the processor. Therefore, if the watchdog timer times out, an interrupt is generated. The interrupt service routine is used to rectify the problem.

The watchdog timer is cleared either by a high to low or by a low to high transition on WDI. Pulses as narrow as 50 ns are detected. The timer is also cleared by RESET/RESET going active. Therefore, the watchdog timeout period begins after reset goes inactive.

When VCC falls below the reset threshold, $\overline{\text{WDO}}$ is forced low whether or not the watchdog timer has timed out. Normally, this generates an interrupt, but it is overridden by RESET/ $\overline{\text{RESET}}$ going active.

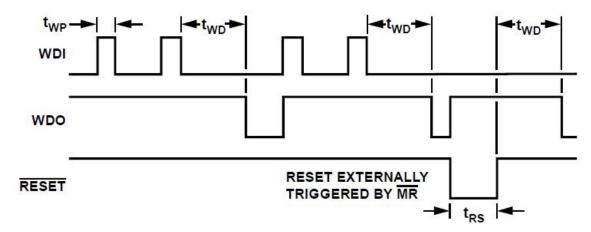


Figure 16. Watchdog Timing



POWER FAIL COMPARATOR

The power fail comparator is an independent comparator that monitors the input power supply. The inverting input of the comparator internally connects to a 1.25 V reference voltage. The noninverting input is available at the PFI input. This input monitors the input power supply via a resistive divider network. When the voltage on the PFI input drops below 1.25 V, the comparator output (PFO) goes low, indicating a power failure. For early warning of power failure, the comparator monitors the preregulator input by choosing an appropriate resistive divider network. The PFO output interrupts the processor to implement a shutdown procedure before the power is lost.

As the voltage on the PFI pin is limited to V_{CC} + 0.3 V, it is recommended to connect the PFI pin with a Schottky diode to the \overline{RESET} pin, as shown in Figure 17. This helps with clamping the PFI pin voltage during device power up and operation.

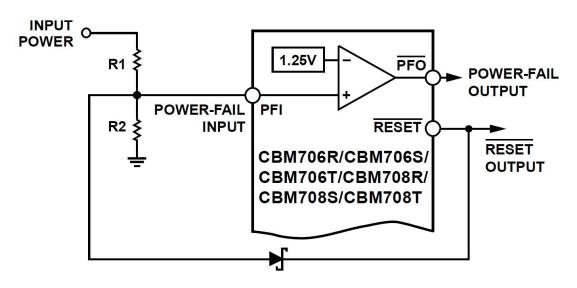


Figure 17. Power Fail Comparator

Adding Hysteresis to the Power Fail Comparator

For increased noise immunity, hysteresis can be added to the power fail comparator. Because the comparator circuit is non-inverting, hysteresis is added simply by connecting a resistor between the \overline{PFO} output and the PFI input as shown in Figure 18. When \overline{PFO} is low, Resistor R3 sinks current from the summing junction at the PFI pin. When \overline{PFO} is high, Resistor R3 sources current into the PFI summing junction. This results in differing trip levels for the comparator. Further noise immunity is achieved by connecting a capacitor between PFI and GND.

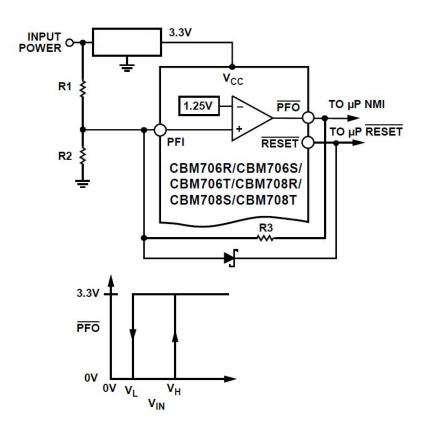


Figure 18. Adding Hysteresis to the Power Fail Comparator

$$V_{H} = 1.25[1 + \left(\frac{R2 + R3}{R2 \times R3}\right)R1]$$

$$V_L = 1.25 + R1 \left(\frac{1.25}{R2} - \frac{V_{CC} - 1.25}{R3} \right)$$

$$V_{MID} = 1.25 \left(\frac{\text{R1+R2}}{\text{R2}} \right)$$



VALID RESET BELOW 1 V V_{CC}

The CBM706R/CBM706S/CBM706T, CBM708R/CBM708S/ CBM708T are guaranteed to provide a valid reset level with V_{CC} as low as 1 V. Refer to the Typical Performance Characteristics section. As V_{CC} drops below 1 V, the internal transistor does not have sufficient drive to hold it on so the voltage on \overline{RESET} is no longer held at 0 V. A pull-down resistor, as shown in Figure 19, can connect externally to hold the line low if it is required.

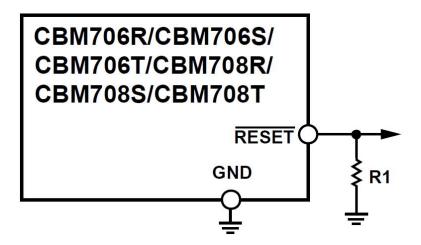


Figure 19. RESET. Valid Below 1V



APPLICATIONS INFORMATION

A typical operating circuit is shown in Figure 20. The unregulated dc input supply is monitored using the PFI input via the resistive divider network. Resistor R1 and Resistor R2 are to be selected so that when the supply voltage drops below the desired level (for example, 5V), the voltage on PFI drops below the 1.25V threshold, thereby generating an interrupt to the microprocessor. Monitoring the preregulator input gives additional time to execute an orderly shutdown procedure before power is lost.

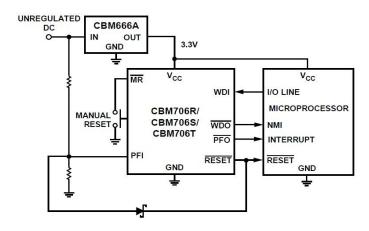


Figure 20. Typical Application Circuit

Microprocessor activity is monitored using the WDI input. This is driven using an output line from the processor. The software routines toggle this line at least once every 1.6 sec. If a problem occurs and this line is not toggled, $\overline{\text{WDO}}$ goes low and a nonmask-able interrupt is generated. This interrupt routine is to be used to clear the problem.

If, in the event of inactivity on the WDI line, a system reset is required, the $\overline{\text{WDO}}$ output is to be connected to the input as shown in Figure 21.

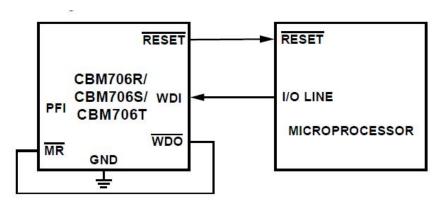


Figure 21. RESET From WDO



MONITORING ADDITIONAL SUPPLY LEVELS

It is possible to use the power fail comparator to monitor a second supply as shown in Figure 22. The two sensing resistors, R1 and R2, are selected such that the voltage on PFI drops below 1.25 V at the minimum acceptable input supply. The \overline{PFO} output can connect to the \overline{MR} input so a reset generates when the supply drops out of tolerance. In this case, if either supply drops out of tolerance, a reset is generated.

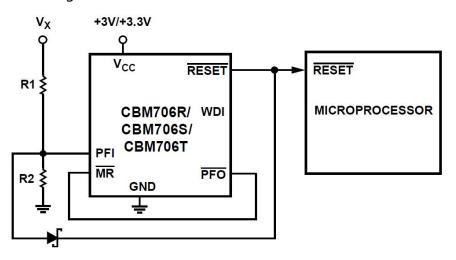


Figure 22. Monitoring 3 V/3.3 V and an Additional Supply, V_X

MICROPROCESSOR WITH BIDIRECTIONAL RESET

To prevent contention for microprocessors with a bidirectional reset line, a current limiting resistor is to be inserted between the CBM706R/CBM706S/CBM706T, CBM708R/CBM708S/CBM708T RESET output pin and the microprocessor reset pin. This limits the current to a safe level if there are conflicting output reset levels. A suitable resistor value is $4.7k\Omega$. If the reset output is required for other uses, it must be buffered as shown in Figure 23.

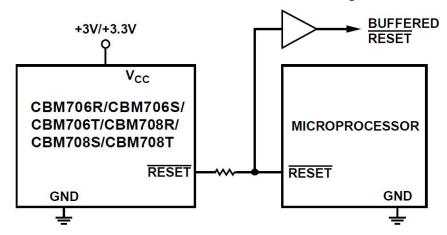
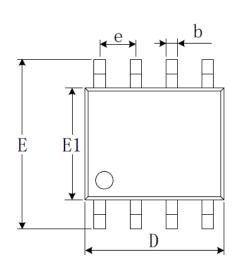


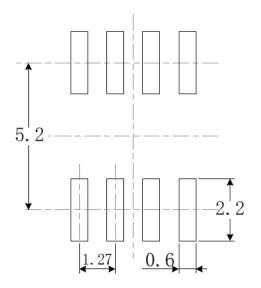
Figure 23. Bidirectional Input/Output RESET



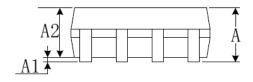
OUTLINE DIMENSIONS

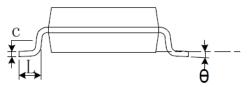
SOIC-8(SOP8)





RECOMMENDED LAND PATTERN (Unit: mm)





Cranala al	Dimensions I	n Millimeters	Dimensions Inches		
Symbol	Min	Max	Min	Max	
А	1.350	1.750	0.053	0.069	
A1	0.100	0.250	0.004	0.010	
A2	1.350	1.550	0.053	0.061	
b	0.330	0.510	0.013	0.020	
С	0.170	0.250	0.007	0.010	
D	4.800	5.000	0.189	0.197	
E	5.800	6.200	0.228	0.244	
E1	3.800	4.000	0.150	0.157	
е	1.270) BSC	0.050) BSC	
L	0.400	1.270	0.016	0.050	
θ	0°	8°	0°	8°	



PACKAGE/ORDERING INFORMATION

PRODUCT	ORDERING NUMBER	TEMPRANGE	PACKAGE	PAKEAGE MARKING	TRANSPOT MEDIA,QUANTILY
	CBM706PAS8	-40°C~125°C	SOIC-8(SOP8)	CBM706P	Tape and Reel,2500
CBM706P	CBM705PMS8	-40°C~125°C	MSOP-8	706PM	Tape and Reel,3000
	CBM706RAS8	-40°C~125°C	SOIC-8(SOP8)	CBM706R	Tape and Reel,2500
CBM706R	CBM706RMS8	-40°C~125°C	MSOP-8	706RM	Tape and Reel,3000
CBM706S	CBM706SA8	-40°C~125°C	SOIC-8(SOP8)	CBM706S	Tape and Reel,2500
	CBM706SM8	-40°C∼125°C	MSOP-8	706SM	Tape and Reel,3000
	CBM706TS8	-40°C~125°C	SOIC-8(SOP8)	CBM706T	Tape and Reel,2500
CBM706T	CBM708TMS8	-40°C~125°C	MSOP-8	706TM	Tape and Reel,3000
CBM708R	CBM708RAS8	-40°C~125°C	SOIC-8(SOP8)	CBM708R	Tape and Reel,2500
	CBM708RMS8	-40°C~125°C	MSOP-8	708RM	Tape and Reel,3000
СВМ708Т	CBM708TAS8	-40°C∼125°C	SOIC-8(SOP8)	CBM708T	Tape and Reel,2500
	CBM708TMS8	-40℃~125℃	MSOP-8	708TM	Tape and Reel,3000

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 R5S72690W266BG#U0
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 MPC8245TVV266D
 MPC8245TZU300D
 MPC8260ACVVMHBB

 MPC8323ECVRAFDCA
 MPC8323VRADDCA
 MPC8536ECVJAVLA
 BOXNUC5PGYH0AJ
 20-668-0024
 P1010NSN5DFB

 P2010NSN2MHC
 P2020NXE2HHC
 P5020NSE7QMB
 P5020NSE7TNB
 P5020NSE7VNB
 LS1020ASN7KQB
 LS1020AXN7HNB

 LS1020AXN7KQB
 A2C00010729 A
 A2C00039344
 T1022NSE7MQB
 T1022NXN7PQB
 T1023NSE7MQA
 T1024NXE7PQA

 T1042NSE7MQB
 T1042NSN7MQB
 T1042NXN7WQB
 T2080NSE8TTB
 T2080NSN8PTB
 T2080NXE8TTB
 T2081NXN8TTB

 R5F101AFASP#V0
 MC68302CEH20C
 TS68040MF33A
 MPC8260ACVVMIBB
 MPC8280CZUUPEA
 MPC8313ECVRAFFC

 MPC8313ECVRAGDC
 MPC8313EVRADDC
 MPC8313EVRADDC
 MPC8313VRADDC