

General Description

The MAX705-MAX708/MAX813L microprocessor (µP) supervisory circuits reduce the complexity and number of components required to monitor power-supply and battery functions in µP systems. These devices significantly improve system reliability and accuracy compared to separate ICs or discrete components.

The MAX705/MAX706/MAX813L provide four functions:

- 1) A reset output during power-up, power-down, and brownout conditions.
- 2) An independent watchdog output that goes low if the watchdog input has not been toggled within 1.6 seconds.
- A 1.25V threshold detector for power-fail warning, low-battery detection, or for monitoring a power supply other than +5V.
- 4) An active-low manual-reset input.

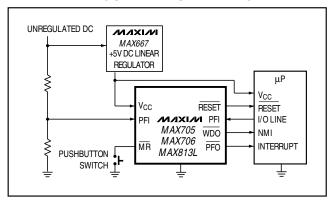
The MAX707/MAX708 are the same as the MAX705/ MAX706, except an active-high reset is substituted for the watchdog timer. The MAX813L is the same as the MAX705, except RESET is provided instead of RESET.

Two supply-voltage monitor levels are available: The MAX705/MAX707/MAX813L generate a reset pulse when the supply voltage drops below 4.65V, while the MAX706/MAX708 generate a reset pulse below 4.40V. All four parts are available in 8-pin DIP, SO and µMAX packages.

Applications

Computers Controllers Intelligent Instruments **Automotive Systems** Critical µP Power Monitoring

Typical Operating Circuit



Features

- ψ μMAX Package: Smallest 8-Pin SO
- ♦ Guaranteed RESET Valid at V_{CC} = 1V
- ♦ Precision Supply-Voltage Monitor 4.65V in MAX705/MAX707/MAX813L 4.40V in MAX706/MAX708
- ♦ 200ms Reset Pulse Width
- **♦ Debounced TTL/CMOS-Compatible Manual-Reset Input**
- ◆ Independent Watchdog Timer—1.6sec Timeout (MAX705/MAX706)
- **♦** Active-High Reset Output (MAX707/MAX708/MAX813L)
- **♦ Voltage Monitor for Power-Fail or Low-Battery** Warning

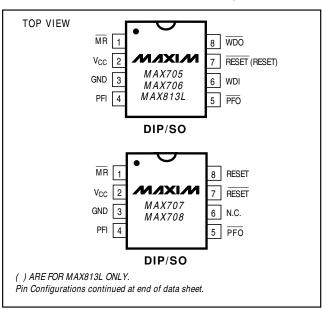
Ordering Information

PART	TEMP. RANGE	PIN-PACKAGE
MAX705CPA	0°C to +70°C	8 Plastic DIP
MAX705CSA	0°C to +70°C	8 SO
MAX705CUA	0°C to +70°C	8 μMAX
MAX705C/D	0°C to +70°C	Dice*

Ordering Information continued at end of data sheet.

- * Dice are specified at $T_A = +25$ °C.
- **Contact factory for availability and processing to MIL-STD-883.

Pin Configurations



NIXIN

ABSOLUTE MAXIMUM RATINGS

Terminal Voltage (with respect to GND) V _{CC}	SO (derate 5.88mW/°C above +70°C)
Input Current	Operating Temperature Ranges
V _{CC} 20mA	MAX70_C, MAX813LC 0°C to +70°C
GŇD 20mA	MAX70_E, MAX813LE40°C to +85°C
Output Current (all outputs) 20mA	MAX70_MJA55°C to +125°C
Continuous Power Dissipation	Storage Temperature Range65°C to +160°C
Plastic DIP (derate 9.09mW/°C above +70°C) 727mW	Lead Temperature (soldering, 10sec) +300°C

Note 1: The input voltage limits on PFI and MR can be exceeded if the input current is less than 10mA.

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

 $(V_{CC} = 4.75 \text{V to } 5.5 \text{V for MAX705/MAX707/MAX813L}, V_{CC} = 4.5 \text{V to } 5.5 \text{V for MAX706/MAX708}, T_{A} = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted.})$

PARAMET	ER	SYMBOL	CON	IDITIONS	MIN	TYP	MAX	UNITS					
			MAX70_C		1.0		5.5						
Operating Voltage Rang	ge	V _C C	MAX813LC		1.1		5.5	V					
			MAX70_E/M, MAX	X813LE/M	1.2	1.2 5.5							
			MAX705C, MAX7	06C, MAX813LC		150	350						
Committee Committee			MAX705E/M, MAX	X706E/M, MAX813LE/M		150	500						
Supply Current	ISUPPLY	MAX707C, MAX7	08C		50	350	μΑ						
			MAX707E/M, MAX	X708E/M		50	500						
Deset Threehold (Note	ο.\	\/	MAX705, MAX70	7, MAX813L	4.50	4.65	4.75	V					
Reset Threshold (Note :	2)	V _{RT}	MAX706, MAX708	8	4.25	4.40	4.50	V					
Reset Threshold Hysteresis (Note 2)						40		mV					
Reset Pulse Width (Note	e 2)	trs			140	200	280	ms					
			ISOURCE = 800µA	1	V _{CC} - 1.5								
DECET Output Valtage			I _{SINK} = 3.2mA				0.4	V					
RESET Output Voltage			MAX70_C, V _{CC} =	1V, I _{SINK} = 50μA			0.3	V					
			MAX70_E/M, V _{CC}	$= 1.2V$, $I_{SINK} = 100 \mu A$			0.3						
			MAX707, MAX708	8, I _{SOURCE} = 800μA	V _{CC} - 1.5								
			MAX707, MAX708	8, I _{SINK} = 1.2mA			0.4						
RESET Output Voltage			MAX813LC, ISOUR	$RCE = 4\mu A$, $V_{CC} = 1.1V$	0.8			V					
NESET Output voltage			MAX813LE/M, I _{SO}	$URCE = 4\mu A$, $V_{CC} = 1.2V$	0.9			V					
			MAX813L	ISOURCE = 800μA	V _{CC} - 1.5								
			IVIAAOTSL	I _{SINK} = 3.2mA			0.4						
Watchdog Timeout Peri	od	t _{WD}	MAX705, MAX706	6, MAX813L	1.00	1.60	2.25	sec					
WDI Pulse Width		t _{WP}	$V_{IL} = 0.4V, V_{IH} =$	(V _{CC}) (0.8)	50			ns					
WDI Input Threshold	Low		MAX705, MAX706	6, MAX813L,			8.0	V					
WDI IIIput Tillesiloiu	High		$V_{CC} = 5V$		3.5			V					
WDI Input Current			MAX705, MAX706	S , MAX813L, WDI = V_{CC}		50	150	μΑ					
WDI Input Current			MAX705, MAX706	5, MAX813L, WDI = 0V	-150	-150 -50							
WDO Output Voltage			MAX705, MAX706 I _{SOURCE} = 800μA		V _{CC} - 1.5			٧					
wbo output voltage			MAX705, MAX706 I _{SINK} = 1.2mA	6, MAX813L,			0.4	v					

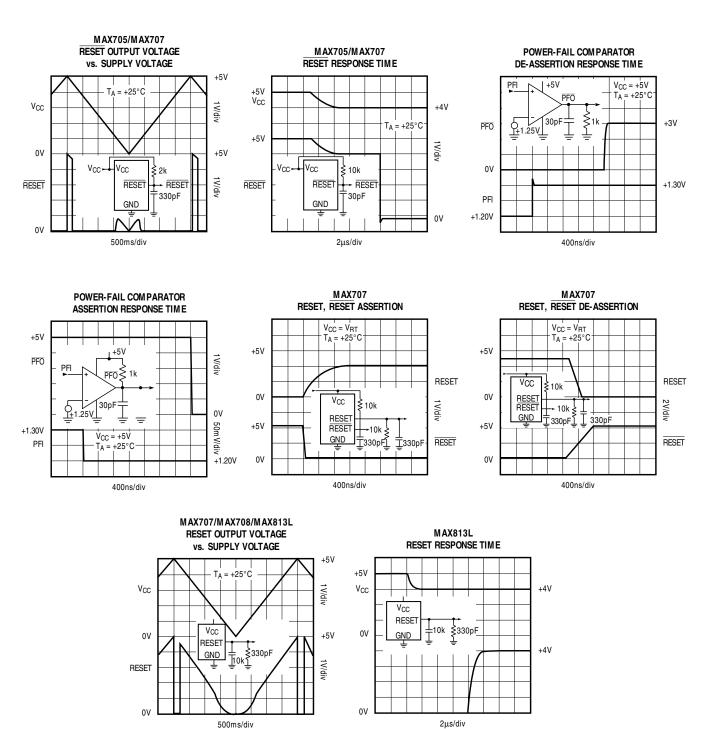
ELECTRICAL CHARACTERISTICS (continued)

 $(V_{CC} = 4.75 \text{V to } 5.5 \text{V for MAX705/MAX707/MAX813L}, V_{CC} = 4.5 \text{V to } 5.5 \text{V for MAX706/MAX708}, T_{A} = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted.})$

PARAMET	ER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
MR Pull-Up Current			MR = 0V	100	250	600	μΑ
MR Pulse Width		t _{MR}		150			ns
MR Input Threshold	Low					0.8	V
	High			2.0] '
MR to Reset Out Delay	(Note 2)	t _{MD}				250	ns
PFI Input Threshold			V _{CC} = 5V	1.20	1.25	1.30	V
PFI Input Current				-25.00	0.01	25.00	nA
PFO Output Voltage			ISOURCE = 800µA	V _{CC} - 1.5			V
			I _{SINK} = 3.2mA			0.4] '

Note 2: Applies to both RESET in the MAX705-MAX708 and RESET in the MAX707/MAX708/MAX813L.

Typical Operating Characteristics



Pin Description

		Pl	N				•
MAX705/	MAX706	MAX707	/MAX708	MAX	813L	NAME	FUNCTION
DIP/SO	μМΑХ	DIP/SO	μМΑХ	DIP/SO	μМΑХ		
1	3	1	3	1	3	MR	Manual-Reset Input triggers a reset pulse when pulled below 0.8V. This active-low input has an internal 250μA pull-up current. It can be driven from a TTL or CMOS logic line as well as shorted to ground with a switch.
2	4	2	4	2	4	V _{CC}	+5V Supply Input
3	5	3	5	3	5	GND	0V Ground Reference for all signals
4	6	4	6	4	6	PFI	Power-Fail Voltage Monitor Input. When PFI is less than 1.25V, PFO goes low. Connect PFI to GND or V _{CC} when not used.
5	7	5	7	5 7		PFO	Power-Fail Output goes low and sinks current when PFI is less than 1.25V; otherwise PFO stays high.
6	8	-	-	6	8	WDI	Watchdog Input. If WDI remains high or low for 1.6sec, the internal watchdog timer runs out and WDO goes low (Figure 1). Floating WDI or connecting WDI to a high-impedance three-state buffer disables the watchdog feature. The internal watchdog timer clears whenever reset is asserted, WDI is three-stated, or WDI sees a rising or falling edge.
-	=	6	-	-	-	N.C.	No Connect
7	1	7	1	-	-	RESET	Active-Low Reset Output pulses low for 200ms when triggered, and stays low whenever V _{CC} is below the reset threshold (4.65V in the MAX705 and 4.40V in the MAX706). It remains low for 200ms after V _{CC} rises above the reset threshold or $\overline{\text{MR}}$ goes from low to high (Figure 3). A watchdog timeout will not trigger $\overline{\text{RESET}}$ unless $\overline{\text{WDO}}$ is connected to $\overline{\text{MR}}$.
8	2	-	-	8	2	WDO	Watchdog Output pulls low when the internal watchdog timer finishes its 1.6sec count and does not go high again until the watchdog is cleared. WDO also goes low during low-line conditions. Whenever V _{CC} is below the reset threshold, WDO stays low; however, unlike RESET, WDO does not have a minimum pulse width. As soon as V _{CC} rises above the reset threshold, WDO goes high with no delay.
-	-	8	2	7	1	RESET	Active-High Reset Output is the inverse of RESET. Whenever RESET is high, RESET is low, and vice versa (Figure 2). The MAX813L has a RESET output only.

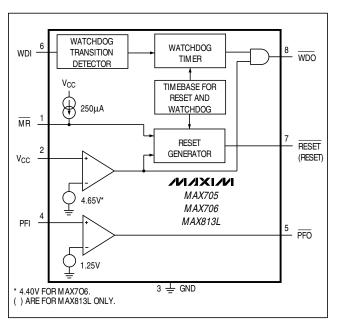


Figure 1. MAX705/MAX706/MAX813L Block Diagram

Detailed Description Reset Output

A microprocessor's (μ P's) reset input starts the μ P in a known state. Whenever the μ P is in an unknown state, it should be held in reset. The MAX705-MAX708/MAX813L assert reset during power-up and prevent code execution errors during power-down or brownout conditions.

On power-up, once V_{CC} reaches 1V, $\overline{\text{RESET}}$ is a guaranteed logic low of 0.4V or less. As V_{CC} rises, $\overline{\text{RESET}}$ stays low. When V_{CC} rises above the reset threshold, an internal timer releases $\overline{\text{RESET}}$ after about 200ms. $\overline{\text{RESET}}$ pulses low whenever V_{CC} dips below the reset threshold, i.e. brownout condition. If brownout occurs in the middle of a previously initiated reset pulse, the pulse continues for at least another 140ms. On power-down, once V_{CC} falls below the reset threshold, $\overline{\text{RESET}}$ stays low and is guaranteed to be 0.4V or less until V_{CC} drops below 1V.

The MAX707/MAX708/MAX813L active-high RESET output is simply the complement of the RESET output, and is guaranteed to be valid with V_{CC} down to 1.1V. Some μPs , such as Intel's 80C51, require an active-high reset pulse.

Watchdog Timer

The MAX705/MAX706/MAX813L watchdog circuit monitors the μ P's activity. If the μ P does not toggle the watchdog input (WDI) within 1.6sec and WDI is not three-stated, WDO goes low. As long as RESET is asserted or the

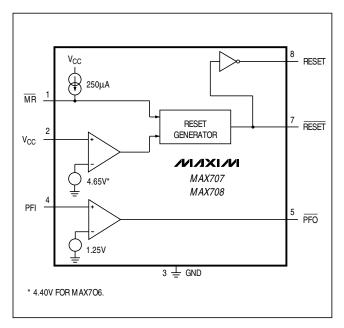


Figure 2. MAX707/MAX708 Block Diagram

WDI input is three-stated, the watchdog timer will stay cleared and will not count. As soon as reset is released and WDI is driven high or low, the timer will start counting. Pulses as short as 50ns can be detected.

Typically, \overline{WDO} will be connected to the non-maskable interrupt input (NMI) of a μP . When V_{CC} drops below the reset threshold, \overline{WDO} will go low whether or not the watchdog timer has timed out yet. Normally this would trigger an NMI interrupt, but \overline{RESET} goes low simultaneously, and thus overrides the NMI interrupt.

If WDI is left unconnected, \overline{WDO} can be used as a low-line output. Since floating WDI disables the internal timer, \overline{WDO} goes low only when V_{CC} falls below the reset threshold, thus functioning as a low-line output.

The MAX705/MAX706 have a watchdog timer and a RESET output. The MAX707/MAX708 have both active-high and active-low reset outputs. The MAX813L has both an active-high reset output and a watchdog timer.

Manual Reset

The manual-reset input (\overline{MR}) allows reset to be triggered by a pushbutton switch. The switch is effectively debounced by the 140ms minimum reset pulse width. \overline{MR} is TTL/CMOS logic compatible, so it can be driven by an external logic line. \overline{MR} can be used to force a watchdog timeout to generate a reset pulse in the MAX705/MAX706/MAX813L. Simply connect \overline{WDO} to \overline{MR} .

Power-Fail Comparator

The power-fail comparator can be used for various purposes because its output and noninverting input are not internally connected. The inverting input is internally connected to a 1.25V reference.

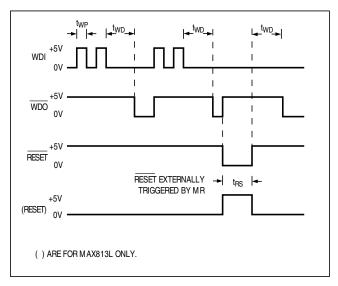


Figure 3. MAX705/MAX706/MAX813L Watchdog Tlming

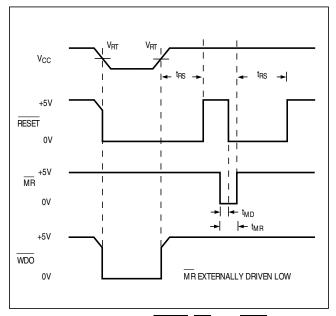


Figure 4. MAX705/MAX706 RESET, MR, and WDO Timing with WDI Three-Stated. The MAX707/MAX708/MAX813L RESET output is the inverse of RESET shown.

To build an early-warning circuit for power failure, connect the PFI pin to a voltage divider (see *Typical Operating Circuit*). Choose the voltage divider ratio so that the voltage at PFI falls below 1.25V just before the +5V regulator drops out. Use \overline{PFO} to interrupt the μP so it can prepare for an orderly power-down.

_Applications Information

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

When V_{CC} falls below 1V, the MAX705-MAX708 $\overline{\text{RESET}}$ output no longer sinks current—it becomes an open circuit. High-impedance CMOS logic inputs can drift to undetermined voltages if left undriven. If a pull-down resistor is added to the $\overline{\text{RESET}}$ pin as shown in Figure 5, any stray charge or leakage currents will be drained to ground, holding $\overline{\text{RESET}}$ low. Resistor value (R1) is not critical. It should be about $100\text{k}\Omega$, large enough not to load $\overline{\text{RESET}}$ and small enough to pull $\overline{\text{RESET}}$ to ground.

Monitoring Voltages Other Than the Unregulated DC Input

Monitor voltages other than the unregulated DC by connecting a voltage divider to PFI and adjusting the ratio appropriately. If required, add hysteresis by connecting a resistor (with a value approximately 10 times the sum of the two resistors in the potential divider network) between PFI and $\overline{\text{PFO}}$. A capacitor between PFI and GND will reduce the power-fail circuit's sensitivity to high-frequency noise on the line being monitored. $\overline{\text{RESET}}$ can be asserted on other voltages in addition to the +5V V_{CC} line. Connect $\overline{\text{PFO}}$ to $\overline{\text{MR}}$ to initiate a $\overline{\text{RESET}}$ pulse when PFI drops below 1.25V. Figure 6 shows the MAX705-MAX708 configured to assert $\overline{\text{RESET}}$ when the +5V supply falls below the reset threshold, or when the +12V supply falls below approximately 11V.

Monitoring a Negative Voltage

The power-fail comparator can also monitor a negative supply rail (Figure 7). When the negative rail is good (a negative voltage of large magnitude), \overline{PFO} is low, and when the negative rail is degraded (a negative voltage of lesser magnitude), \overline{PFO} is high. By adding the resistors and transistor as shown, a high \overline{PFO} triggers reset. As long as \overline{PFO} remains high, the MAX705-MAX708/MAX813L will keep reset asserted (\overline{RESET} = low, RESET = high). Note that this circuit's accuracy depends on the PFI threshold tolerance, the V_{CC} line, and the resistors.

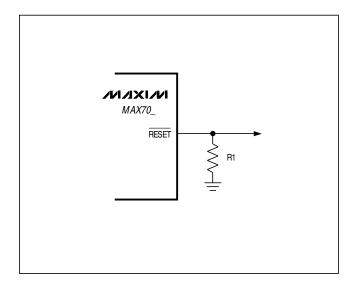


Figure 5. RESET Valid to Ground Circuit

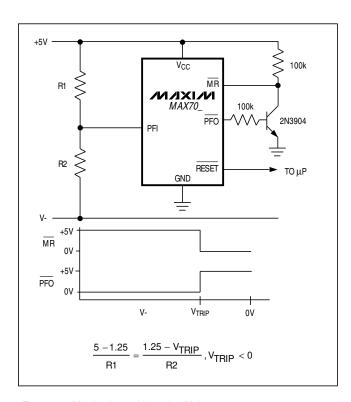


Figure 7. Monitoring a Negative Voltage

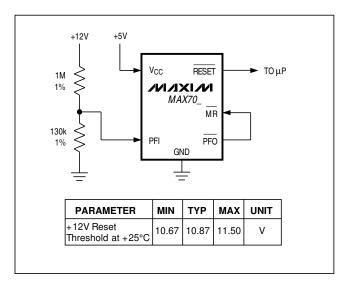


Figure 6. Monitoring Both +5V and +12V

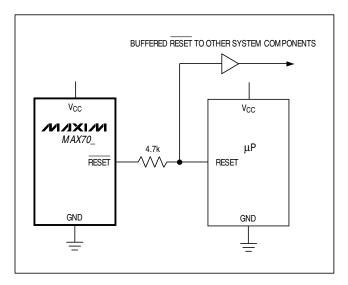


Figure 8. Interfacing to μPs with Bidirectional Reset I/O

Interfacing to µPs with Bidirectional Reset Pins

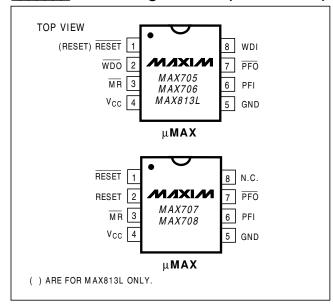
 μPs with bidirectional reset pins, such as the Motorola 68HC11 series, can contend with the MAX705-MAX708 RESET output. If, for example, the RESET output is driven high and the μP wants to pull it low, indeterminate logic levels may result. To correct this, connect a $4.7k\Omega$ resistor between the RESET output and the μP reset I/O, as in Figure 8. Buffer the RESET output to other system components.

Ordering Information (continued)

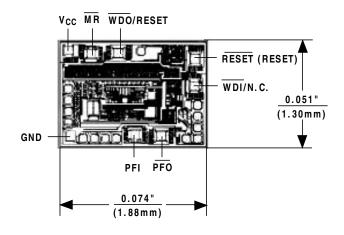
	·····o······a···o···	(001101110000)
PART	TEMP. RANGE	PIN-PACKAGE
MAX705EPA	-40°C to +85°C	8 Plastic DIP
MAX705ESA	-40°C to +85°C	8 SO
MAX705MJA	-55°C to +125°C	8 CERDIP**
MAX706CPA	0°C to +70°C	8 Plastic DIP
MAX706CSA	0°C to +70°C	8 SO
MAX706CUA	0°C to +70°C	8 μΜΑΧ
MAX706C/D	0°C to +70°C	Dice*
MAX706EPA	-40°C to +85°C	8 Plastic DIP
MAX706ESA	-40°C to +85°C	8 SO
MAX706MJA	-55°C to +125°C	8 CERDIP**
MAX707CPA	0°C to +70°C	8 Plastic DIP
MAX707CSA	0°C to +70°C	8 SO
MAX707CUA	0°C to +70°C	8 μMAX
MAX707C/D	0°C to +70°C	Dice*
MAX707EPA	-40°C to +85°C	8 Plastic DIP
MAX707ESA	-40°C to +85°C	8 SO
MAX707MJA	-55°C to +125°C	8 CERDIP**
MAX708CPA	0°C to +70°C	8 Plastic DIP
MAX708CSA	0°C to +70°C	8 SO
MAX708CUA	0°C to +70°C	8 μMAX
MAX708C/D	0°C to +70°C	Dice*
MAX708EPA	-40°C to +85°C	8 Plastic DIP
MAX708ESA	-40°C to +85°C	8 SO
MAX708MJA	-55°C to +125°C	8 CERDIP**
MAX813LCPA	0°C to +70°C	8 Plastic DIP
MAX813LCSA	0°C to +70°C	8 SO
MAX813LCUA	0°C to +70°C	8 μMAX
MAX813LC/D	0°C to +70°C	Dice*
MAX813LEPA	-40°C to +85°C	8 Plastic DIP
MAX813LESA	-40°C to +85°C	8 SO
MAX813LMJA	-55°C to +125°C	8 CERDIP**

^{*}Dice are specified at $T_A = +25$ °C.

Pin Configuration (continued)



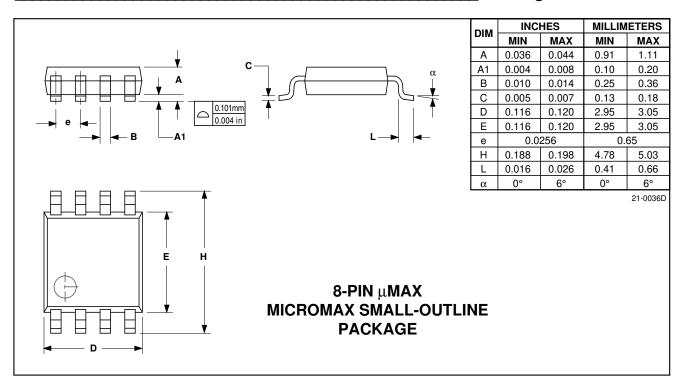
Chip Topography



() ARE FOR MAX813L ONLY. TRANSISTOR COUNT: 572 SUBSTRATE MUST BE LEFT UNCONNECTED.

^{**}Contact factory for availability and processing to MIL-STD-883.

Package Information



(\$) dn-000L	1.71	26	3.23	3.61		3.55	28	2.17	38*	93	02*	71	71	*88	63	06	42				3.88		3.59	3.66	56	3.90					1.02*				3.82	2.44
Price		33	3	33	+	6	3.	2.	-7	2			_;	0	_	3.	κ.	+	++	++	3.	+	3.	6	6	33	+	++	#		1.	+-	+-	++	eri.	2.2
sniq	∞	∞	∞	16	16	16	16	8	∞	∞	∞	∞	∞	∞	∞	16	16	16	91	8	16	∞	8	œ	∞	∞	∞	16	т	ю	8	8	∞	∞	91	∞
Isuppry Васкир Моdе Васкир Моdе		5(0.05)	1(0.4)	5(0.04)					5(0.05)	1(0.4)						5(0.04)		TBD	TBD	TBD	5(0.04)	TBD	5(0.05)	1(0.4)	5(0.05)	1(0.4)	TBD	TBD				TBD	TBD	TBD		0.1(0.002)
YJ99USI ODGHSTING Mode Am (qyt) xsm	0.2(0.05)	0.35(0.2)	0.5(0.4)	0.1(0.035)				0.2(0.1)	0.35(0.2)	0.5(0.4)	0.35(0.2)	0.35(0.2)	0.35(0.2)	0.35(0.2)	0.35(0.2)	0.15(0.06)	0.15(0.07)	TBD	TBD	TBD	0.1(0.035)	TBD	0.35(0.2)	0.5(0.4)	0.35(0.2)	0.5(0.4)	TBD	TBD	0.06(0.024)	0.06(0.024)	0.35(0.2)	TBD	TBD	TBD	0.15(0.07)	0.5(0.23)
Battery-On Output				7		7										`					^						7									
Low-Line Output																7	7	7	7	>							7	7				7			>	
Manual-Reset Input	,							,	,	,	>	>	>	,	,	,	7	,	,							7	7				7	>	>	,	7	
Power-Fail Comparator		,	,	,		>	,		`	,	>	>	^	,	`	,	>	,	,		√ /±2%	,	√ /±2%	√ /±2%	,	√ /±2%	>				√ /±2%	√ /±2%	√ /±2%	√ /±2%	√ /±2%	
CE Write Protect				√ /10ns			`									√ /10ns	√ /10ns	,	,	^	√ /10ns						`	`							√ /10ns	>
V _B Tr-to-Vouτ On Resistance (Ω) xsM		400	400	25					400	400						25		TBD	TBD	TBD	25	TBD	400	400	400	400	TBD	TBD								299
V _{CC} -to-V _{OUT} On Resistance Max (\(\Omega\)		10	9	1.2					10	9						1.2		TBD	TBD	TBD	1.2	TBD	10	9	10	9	TBD	TBD								2.5
Backup-Battery Switch		7	7	7		7			7	7						7		7	>	`	>	7	,	7	,	7	7	>								7
Separate Watchdog Output				7	ery	7	,				,	,	7			,	7	,	,		7						>				7		,		7	
Nominal Watchdog Timeout Period (sec), if Available	0.15/0.6/1.2	1.6	1.6	1.6/adj.	and a 125 mAh lithium battery	1.6/adj.	1.6/adj.				1.6	1.6	1.6			1	1	1.6	1.6		1.6/adj.	1.6	1.6	1.6	1.6		1.6				1.6		1.6		1	
RESET Valid to V _{CC} = 1V	7	7	>	,	125mAł				7	2	2	7	7	7	,	7	7	,	`	^	7	7	,	7	7	7	7	,	7	7	7	7	,	,	7	
Active-High teseR	,			,	691A and a	7	,	`				>		,	,	,	>	,	`		^			,	,	7	√ /±1.5%			>	,	√ /±1%		,	7	
wol-evitoA teseR	7	>	7	>	odule with the MAX691A	7	>	,	>	>	>		7	7	,	7	7	,	`	^	>	V/±1.5%	,			7	7/±1.5%	√ /±1.5%	>			1,11%	1,11%	>	,	
Minimum Reset Pulse Width (ms)	250	140	140	140/adj.	nodule wit	35/adj.	35/adj.	200	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
teseA IsnimoN (V) blońcendT	4.37/4.62	4.65/4.40	2.63/2.93/3.08	4.65/4.40	The MAX1691 is a m	Adj.	Adj.			/3.08	4.40		/3.08		2.63/2.93/3.08	4.65	4.65/4.40/ 2.63/2.93/3.08	2.63/2.93/3.07/3.08	Adj.	2.63/2.93/3.07/3.08	4.60/4.40	4.68/4.58/4.43	4.60/4.40/ 2.63/2.93/3.08	2.63/2.93/3.08	4.65/4.40/	2.63/2.93/3.08	4.68/4.58/4.43	4.68/4.58/4.43	4.65/4.40/ 2.63/2.93/3.08	4.65/4.40/	4.65	4.80/4.70/4.55/3.03	4.80/4.70/4.55/3.03	Adj./±1%	4.65/4.40/	4.37/4.62
Number Part	MAX1232	MAX690A/692A	MAX690R/S/T	MAX691A/693A	MAX1691	MAX696	MAX697	MAX700	MAX703/704	MAX704R/S/T	MAX705/706	MAX706P	MAX706R/S/T	MAX707/708	MAX708R/S/T	MAX791	MAX792L/M/R/S/T	MAX793R/S/U/T	MAX794	MAX795R/S/U/T	MAX800L/M	MAX801L/N/M	MAX802L/M/R/S/T	MAX804R/S/T	MAX805L/M/R/S/T		MAX807L/N/M	MAX808L/N/M	MAX809L/M/R/S/T	MAX810L/M/R/S/T	MAX813L	MAX814K/L/N/T	MAX815K/L/N/T		MAX820L/M/R/S/T	MXD1210

Prices provided are for design guidance and are FOB USA (unless otherwise noted). International prices will differ due to local duties, taxes, and exchange rates. Future product—contact factory for pricing and availability. Specifications are preliminary.

µP Supervisory Circuits

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