DIODES INCORPORATED

New Product Announcement

APX811/812

Tiny microprocessor supervisors with manual reset

Description

The APX811 and APX812 are diodes latest addition to its microprocessor supervisor family.

These industry standard devices provide power supply monitoring for 2.5V, 3.0V, 3.3V and 5V systems; ensuring that µP/µC start up and recover from power supply glitches into a known state.

The APX811 has an active low push-pull reset output while the APX812 has an active high push-pull reset output.

They are pin compatible to the MAX811/MAX812 devices in the tiny SOT143 package.

They are similar in function to the APX809/APX810 and have the added benefit of a manual reset.

Both are available in green mold compound as standard.



The Diodes advantage

The APX810 and APX8123156 provide a simple cost effective solution for µP/µC power supply supervisory applications

- **Precision µP supervisor to monitor 2.5V, 3.0V, 3.3V and 5V power supplies**
  Improves circuit reliability at low cost.
- **Wide range of thresholds to meet the needs of 2.5V, 3.0V, 3.3V and 5V power supplies**
  The right threshold can be chosen to meet the needs of the system
- **Small footprint SOT143 green package**
  Small PCB area and halogen free
- **Manual reset (MR) input**
  Hardwire reset function to create manual reset or simple way of coupling multiple supervisors together
- **No external components required**
  Reduces PCB area and cost.

Circuit functions

- **µP supervisor and reset generator**
- **µC supervisor and reset generator**

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Diodes Microprocessor Supervisors

	Detect Voltages (V)	Operating Voltage Range (V)	Quiescent Current (uA)	Typical Time Delay (ms)	RESET	~~RESET~~	$\overline{MR}$	Watchdog	Reset Output Topology	Ambient Temp Range (°C)	Package Outlines
APX809	2.25/ 2.63/ 2.93/ 3.08/ 4.00/ 4.38/ 4.63	1 ~ 5.5	20	200	N	Y	N	N	Push-Pull	-40 to +85	SOT23/SOT23R
APX810		1 ~ 5.5	20	200	Y	N	N	N	Push-Pull	-40 to +85	SOT23/SOT23R
APX811		1 ~ 5.5	20	200	N	Y	Y	N	Push-Pull	-40 to +85	SOT143
APX812		1 ~ 5.5	20	200	Y	N	Y	N	Push-Pull	-40 to +85	SOT143
APX823		1 ~ 5.5	25	200	N	Y	Y	Y	Push-Pull	-40 to +85	SOT25
APX824		1 ~ 5.5	25	200	Y	Y	N	Y	Push-Pull	-40 to +85	SOT25
APX825A		1 ~ 5.5	25	200	Y	Y	Y	Y	Push-Pull	-40 to +85	SOT26
ZM33164-3	2.68	1 ~ 10	190	-	N	Y	N	N	Open collector	-40 to +85	SOT223
ZSM560	4.6	1 ~ 6.5	200	-	N	Y	N	N	Open collector	-40 to +85	SOT223

To find out more information:
Web page http://www.diodes.com/products/catalog/list.php?parent-id=85
Datasheet http://www.diodes.com/datasheets/APX811_812.pdf

Ordering information

Device	Packaging	Pack mark	Reel size	Tape width	Quantity
APX811-46UG-7	SOT143	C2 YWX	7”	8mm	3000
APX811-44UG-7		C3 YWX			
APX811-40UG-7		C4 YWX			
APX811-31UG-7		C5 YWX			
APX811-29UG-7		C6 YWX			
APX811-26UG-7		C7 YWX			
APX811-23UG-7		C8 YWX			
APX812-46UG-7	SOT143	C9 YWX	7”	8mm	1500
APX812-44UG-7		CA YWX			
APX812-40UG-7		CB YWX			
APX812-31UG-7		CC YWX			
APX812-29UG-7		CD YWX			
APX812-26UG-7		CE YWX			
APX812-23UG-7		CF YWX			

Codes for date coding on part marks: **Y** Year 0~9 **W** A~Z week 1~26 a~z week 27~53
X A~Z: Green