



# 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  $\mu\text{P}/\mu\text{C}$  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  $\mu\text{P}/\mu\text{C}$  power supply supervisory applications

- **Precision  $\mu\text{P}$  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

- $\mu\text{P}$  supervisor and reset generator
- $\mu\text{C}$  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	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](http://www.diodes.com/datasheets/APX811_812.pdf)

## Ordering information

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

Codes for date coding on part marks:

X A~Z: Green

Y Year 0~9

W A~Z week 1~26 a~z week 27~53