



# New Product Announcement

## APX803

# Tiny microprocessor supervisors with open drain output

### Description

The APX803 is 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 APX803 has an active low open drain reset output that enables it to be connected to other APX803 and allows multiple rails to be monitored with one output.

It is pin compatible to the MAX803 devices in the tiny SOT23 package.

The APX803 is the open drain version of the APX809.

All variants are available in green mold compound as standard.



### The Diodes advantage

The APX803 provides 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 SOT23 and SOT23R green package**  
 Small PCB area and halogen free
- Open drain output**  
 Provides a simple way of coupling multiple supervisors together enabling several rails to be monitored and feedback via common output
- 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
AP1701/2	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	SC59/SC59R
AP1703/4		1 ~ 5.5	20	200	Y	N	N	N	Push-Pull	-40 to +85	SC59/SC59R
<b>APX803</b>		<b>1 ~ 5.5</b>	<b>20</b>	<b>200</b>	<b>N</b>	<b>Y</b>	<b>N</b>	<b>N</b>	<b>Open-drain</b>	<b>-40 to +85</b>	<b>SOT23/SOT23R</b>
APX809		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/APX803.pdf>

## Ordering information

Device	Packaging	Pack mark	Reel size	Tape width	Quantity
APX803-46SAG-7 APX803-44SAG-7 APX803-40SAG-7 APX803-31SAG-7 APX803-29SAG-7 APX803-26SAG-7 APX803-23SAG-7	SOT23	C2 YWX C3 YWX C4 YWX C5 YWX C6 YWX C7 YWX C8 YWX	7"	8mm	3000
APX803-46SRG-7 APX803-44SRG-7 APX803-40SRG-7 APX803-31SRG-7 APX803-29SRG-7 APX803-26SRG-7 APX803-23SRG-7	SOT23R	C9 YWX CA YWX CB YWX CC YWX CD YWX CE YWX CF YWX	7"	8mm	1500

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