



New Product Announcement

APX803D

New open drain microprocessor supervisors expand APX803 series

Description

The APX803D is Diodes' latest addition to its industry standard APX803 microprocessor supervisor family.

The APX803 devices feature a typical delay of 200ms, the APX803D has a reduced delay time of 2ms. Initially the APX803D is available with a 2.93V threshold

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 devices have an active low open drain reset output that enables them to be connected to other APX803/D parts, allowing multiple rails to be monitored with one input to the $\mu\text{C}/\mu\text{P}$.

The devices are pin compatible with the MAX803 series in the tiny SOT23 package.

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 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
- **APX803D offers 2ms delay time compared to standard APX803 at 200ms**
- APX803D used in systems where faster response is required
- **Open drain output**
Provides a simple way of coupling multiple supervisors together enabling several rails to be monitored and feedback via common output
- **Small footprint SOT23 and SOT23R green package**
Reduces PCB area.

Circuit functions

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



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APX803/D

Tiny microprocessor supervisors with open drain output

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
APX803D	2.93	1 ~ 5.5	20	2	N	Y	N	N	Open-drain	-40 to +85	SOT23/SOT23R
APX803	2.25/ 2.63/ 2.93/ 3.08/ 4.00/ 4.38/ 4.63	1 ~ 5.5	20	200	N	Y	N	N	Open-drain	-40 to +85	SOT23/SOT23R
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/detail.php?item-id=6124>

Datasheet http://www.diodes.com/datasheets/APX803_D.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 APX803D-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 APX803D-29RAG-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