

1.5A Single Slew Rate Controlled Load Switch

The AP22908 slew rate controlled load switch is a single P-channel MOSFET power switch designed for high-side load-switching applications. The MOSFET has a typical low $R_{DS(ON)}$ of 28m Ω at 3.6V, allowing increased load current handling capacity with a low forward voltage drop.

The turn-on slew rate of the device is controlled internally to avoid inrush current.

The AP22908 load switch is designed to operate from 1.08V to 3.6V, making it ideal for 1.2V, 1.8V, 2.5V, 3.3V and 3.6V systems. The typical quiescent supply current is only 0.05 μ A.

The AP22908 is available in the wafer level chip-scale 4-ball, X1-WLB0909-4 with 0.5mm pitch and standard SOT26 packages.



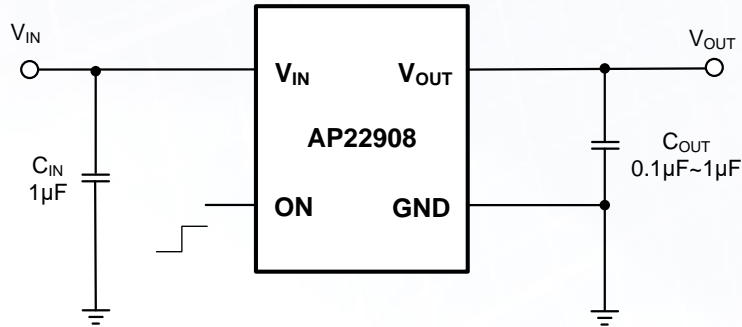
The Diodes Advantage

- **Low On-Resistance of 28m Ω Typical @3.6V**
 Provides a superior solution in terms of efficiency and thermal power dissipation
- **Ultra Low Quiescent Current 0.05 μ A typical**
 Minimal power is dissipated extending battery life
- **1.5 A current capability with Slew Rate Control**
 Switching a large current in a controlled manner protects systems from damage or undesired glitches
- **Wide Input Voltage Range: 1.08V to 3.6V**
 Offers extra voltage margin for systems that need to operate at 1.2V
- **Two Package Options: chip-scale X1-WLB0909-4 or SOT26**
 The ultimate in low on state resistance is available in the 0.87mm x 0.87mm x 0.5mm chip-scale package
 Manufacturing convenience can be obtained with the SOT26

Applications

- Mobile devices and smartphones
- Portable media devices
- Wearable devices
- Advanced notebook, UMPCs and MIDs
- Portable medical devices
- GPS and navigation equipment

Typical Application Circuit



Typical On State Switch Resistance

Operating Voltage	AP2908CN4-7 Chipscale	AP22908W6-7 SOT26
3.6 V	28mΩ	40mΩ
2.5 V	33mΩ	45mΩ
1.8 V	41mΩ	53mΩ
1.2 V	69mΩ	91mΩ
1.08 V	112mΩ	120mΩ

Excellent on-state resistance at 3.6 V
Specifications included down to 1.08 V

Product and Ordering Information

Part Number	Maximum Continuous Output Current	Maximum Current Limit	Enable Logic (Active)	Minimum Operating Voltage	Maximum Operating Voltage	Quiescent Current@3.6V	R _{DS(ON)} @ VIN = 3.6V	Output Discharge FET On-resistance	Package Outlines	Tape Width is 8 mm Reel Size is 7"	
										Quantity/reel	Reel size Suffix
AP22908CN4-7	A	A	High	V	V	μA	mΩ	mΩ	X1-WLB0909	3000	-7
AP22908W6-7	1.5	2.5	High	1.08	3.6	0.05	28	80	SOT-26	3000	-7

To find out more information:

<https://www.diodes.com/part/AP22908>