



New Product Announcement

AP22802

Single-Channel Power Distribution Load Switch

The AP22802 is a single-channel current-limited high-side power switch optimized for USB and other hot-swap applications

Current limit Protection

The AP22802 limits the maximum current to avoid damage of load and during overload conditions.

Short Circuit Protection

The AP22802 senses the short circuit and immediately clamps output current to a certain safe level.



The Diodes Advantage

The AP22802 provide fast over-current protection for improved USB ports protection

- **2A Single Channel in SOT25**
Increases power density for multiple USB 3.0 ports and other load switch applications
- **Low 50mΩ high-side switch**
Reduces output voltage drop and power dissipation
- **Short-circuit current foldback**
Reduces internal power dissipation during short circuit conditions increasing reliability of the system
- **Output auto-discharge function**
Provides controlled discharge of the output voltage stored on the output capacitor

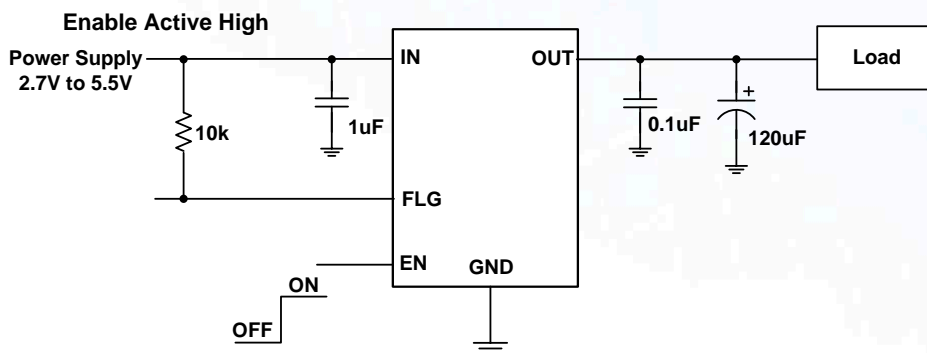
Circuit Functions

- Ultrabooks/ Notebooks
- Set-Top Boxes
- Solid State Driver (SSD)
- Consumer Electronics
- Tablet PC
- Telecom Systems



Single Channel Power Distribution Load Switch

Typical Application Schematic



Product Portfolio

Part	Min. Input Voltage	Max. Input Voltage	Max. Output Current	Limit Current (Typ.)	Enable	Package
AP22802AW5	2.7V	5.5V	2A	2.7A	Active High	SOT-25
AP22802BW5	2.7V	5.5V	2A	2.7A	Active Low	SOT-25

Ordering Information

Device	Package Code	Packaging	Package marking info.	Reel Size	Tape Width	Quantity
AP22802AW5-7	W5	SOT25	XA YW X	7"	8 mm	3000
AP22802BW5-7	W5	SOT25	XB YW X	7"	8 mm	3000

All variants are in packages that are "Green" Molding Compound (No Br, Sb) with Lead Free Finish/RoHS Compliant (Note 1)
Notes:1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes
2 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