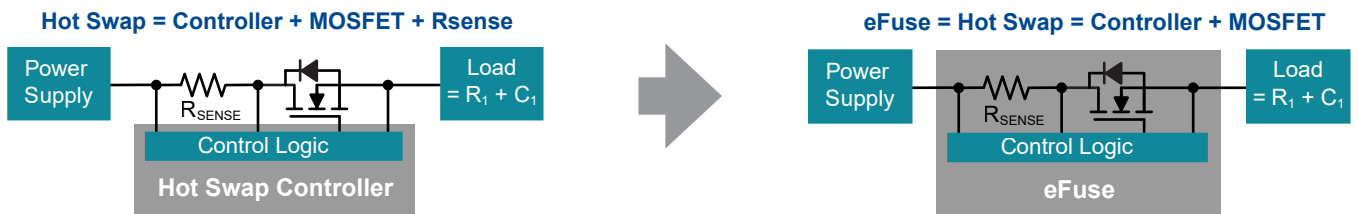




# eFuse

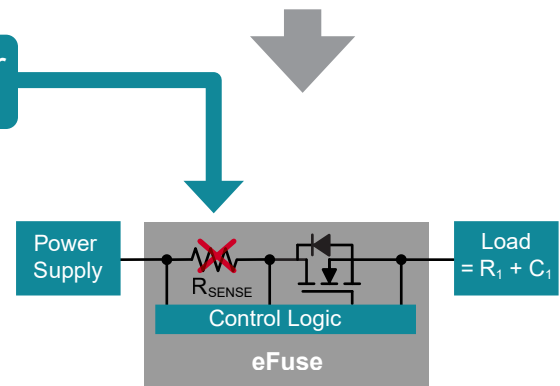
Alpha and Omega Semiconductor combines Hot Swap Controllers and Power MOSFET into a single package.

The eFuse can improve the system's reliability by isolating the load from the main power rails in case of a fault condition.



## AOS Value Proposition

- Sense FET to remove unnecessary power loss from sense resistor
- Co-package similar to DrMOS technology
- Support 3.3V to 12V input power supply

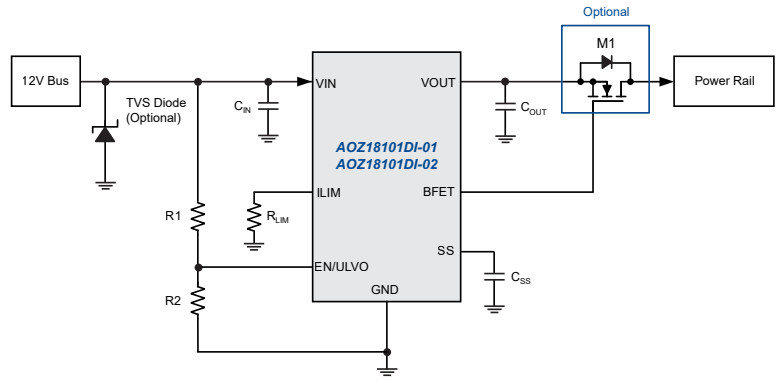


eFuse



## Features

- 3.5 V to 14 V input voltage operating range
- 22 V abs max voltage rating on VIN and VOUT pin
- Typical RON: 20 mΩ
- 1 A to 5 A programmable current limit
- Built-in blocking FET for True Reverse Current Blocking (TRCB)
- Programmable output soft start time
- Fast Over Current Protection (OCP)
- Input Over-Voltage Output Clamp (OVC)
- Input Under-Voltage Lock Out (UVLO)
- Thermal Shut Down Protection (TSD)
- ±2 kV HBM ESD rating



- ±1 kV CDM ESD rating
- IEC 61000-4-2: ±8 kV on VIN and VOUT
- IEC 61000-4-5: ± 40 V on VIN, No cap
- IEC 62368-1: 2014 Certificate No US-40222-UL

## Applications

- Servers
- HDD and SSD Drives
- PCI Cards
- Networking

Part Number	Min Vin(V)	Max Vin(V)	Max Load I(A)	Ron (mΩ)	I Limit	OVP	RCB Topology	Latch-off/ Auto-Restart	TRCB	IMON	Package
AOZ18101DI-01	3.5	14	5	20	Adjustable	Clamp	Comparator	Auto-Restart	Yes	No	DFN3x3-10L
AOZ18101DI-02	3.5	14	5	20	Adjustable	Clamp	Comparator	Latch-off	Yes	No	DFN3x3-10L
AOZ18101DI-03	3.5	14	5	20	Adjustable	Clamp	-	Auto-Restart	No	No	DFN3x3-10L
AOZ18101DI-04	3.5	14	5	20	Adjustable	Clamp	-	Latch-off	No	No	DFN3x3-10L
AOZ18102DI-01	3.5	13.8	5	21	Adjustable	Clamp	Comparator	Auto-Restart	Yes	No	DFN3x3-10L
AOZ18102DI-02	3.5	13.8	5	21	Adjustable	Clamp	Comparator	Latch-off	Yes	No	DFN3x3-10L



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Alpha and Omega Semiconductor Limited, or AOS, is a designer, developer and global supplier of a broad range of discrete power devices, wide band gap power devices, power management ICs and modules. AOS's products are aimed at, but not limited to applications such as portable computers, flat panel TVs, LED lighting, smart phones, battery backs, consumer and industrial motor controls, automotive electronics, and power supplies for TVs, computers, servers and telecommunication equipment.



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