HAD0200

HAD0200 is an ideal diode controller designed to work in conjunction with a discrete N-Channel Power MOSFET and a capacitor. It offers a superior alternative to traditional Schottky diodes, providing advantages including lower forward voltage drop, reduced heat generation, minimal reverse leakage, higher reverse voltage capacity.

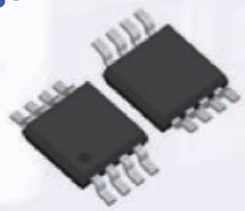
Key features

- Maximum Reverse Voltage (V_R) of 100V
- Minimum Start Voltage (V_F) of 0.48V
- MOSFET On Duty Cycle 99% @ 25°C
- MOSFET On Duty Cycle 97.5% @ 125°C
- Reverse Leakage Typical 0.1μA, Maximum 50μA@-100V Reverse Voltage
- Low Reverse Recovery Time of 3.7μs (t_{REV}) with -20mV Anode to Cathode Voltage
- ESD class of 4kV (HBM) and 750V (CDM)
- Working Ambient Temperature from -40°C to 125°C

Application

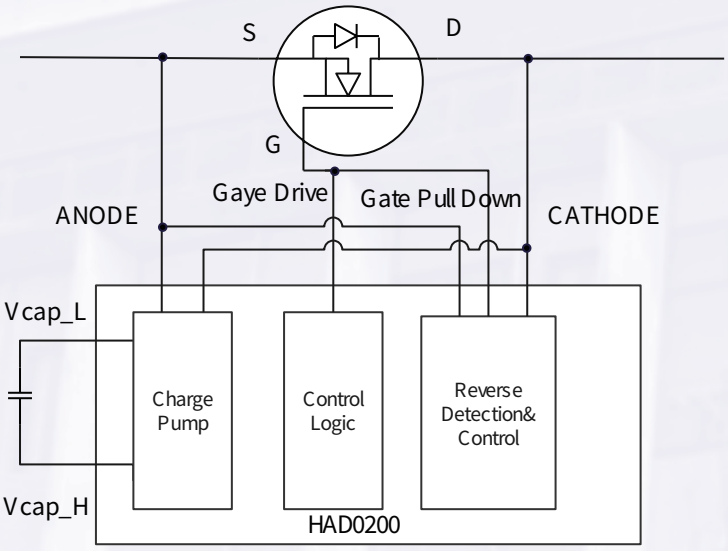
- Photovoltaic RSD
- Photovoltaic Optimizer
- Battery Reverse Protection

Package

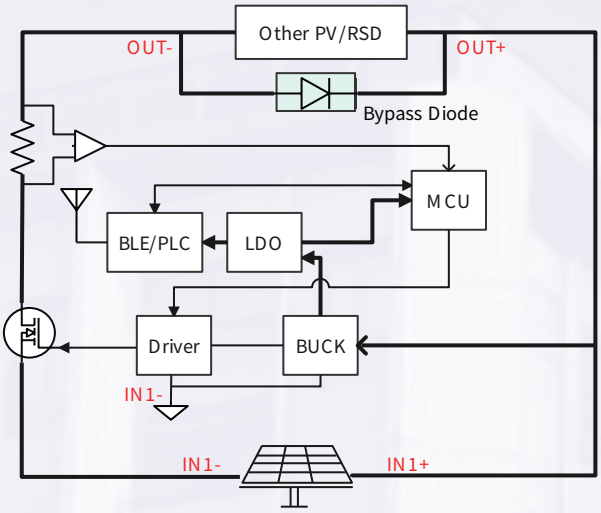


MSOP-8

HAD0200 System Diagram



Photovoltaic Rapid Shut Down



Battery Reverse Protection