



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MP5505A

7V, 4A, High-Efficiency Energy Storage and Management Unit

DESCRIPTION

MP5505A is a lossless energy storage and management unit targeted at solid-state and hard-disk drive applications. Its highly integrated input-current limit and energy storage and release management makes the system solution very compact.

The internal input-current-limit block with dv/dt control prevents inrush current during system start-up; the bus voltage start-up slew rate is programmable. Also, it includes a power-on-reset function for hot-swapping. MPS' patented energy storage and release management control circuit minimizes the storage capacitor requirement. It pumps the input voltage to a higher storage voltage and releases the energy over a hold-up time to the system in the case of an input outage. The storage voltage and the release voltage are both programmable for different system applications.

The MP5505A requires a minimal number of readily available, standard, external components and is available in a QFN-20 (3mm×4mm) package.

FEATURES

- Wide 2.7V to 7V Operating Input Range
- Input-Current Limiter with Integrated 60mΩ MOSFET
- Up to 4.5A Input-Current Limit
- Reverse-Current Protection
- 6V Bus-Clamping Voltage
- Power-On-Reset
- Adjustable dv/dt Slew Rate for Bus Voltage Start-Up
- Internal 30mΩ Disconnect Switch
- Internal 70mΩ and 60mΩ Power Switches for Energy Storage and Release Management Circuits
- Thermal Protection
- EN and Power Good Indicators
- Available in a QFN-20 (3mm×4mm) Package

APPLICATIONS

- Solid-State Drives
- Hard-Disk Drives
- Power Back-Up/Battery Hold-Up Supplies

All MPS parts are lead-free and adhere to the RoHS directive. For MPS green status, please visit MPS website under Products, Quality Assurance page. "MPS" and "The Future of Analog IC Technology" are registered trademarks of Monolithic Power Systems, Inc.

TYPICAL APPLICATION

