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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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## MAX5074A

# Power IC with Integrated MOSFETs for Isolated IEEE 802.3af PD and Telecom Power-Supply Applications

### *Description*

The MAX5074A isolated PWM power IC features integrated switching power MOSFETs connected in a voltage-clamped, two-transistor, power-circuit configuration. This device can be used in both forward and flyback configurations with a wide input voltage range from 11V to 76V and up to 15W of output power.

The voltage-clamped power topology enables full recovery of stored magnetizing and leakage inductive energy for enhanced efficiency and reliability. A look-ahead signal for driving secondary-side synchronous rectifiers can be used to increase efficiency.

A wide array of protection features includes UVLO, overtemperature shutdown, and short-circuit protection with hiccup current limit for enhanced performance and reliability. Operation up to 500kHz allows smaller external magnetics and capacitors.

The MAX5074A is rated for operation over the -40°C to +125°C temperature range and is available in a 20-pin TSSOP package.

**Warning: The MAX5074A is designed to work with high voltages. Exercise caution.**

### *Key Features*

- Clamped, Two-Switch Power IC for High Efficiency
- No Reset Winding Required
- Up to 15W Output Power
- Bias Voltage Regulator with Automatic High-Voltage Supply Turn-Off
- 11V to 76V Wide Input Voltage Range
- Integrated High-Voltage 0.4Ω Power MOSFETs
- Feed-Forward Voltage-Mode Control for Fast Input Transient Rejection
- Programmable Brownout Undervoltage Lockout
- Internal Overtemperature Shutdown
- Indefinite Short-Circuit Protection with Programmable Fault Integration
- Integrated Look-Ahead Signal for Secondary-Side Synchronous Rectification

- > 90% Efficiency with Synchronous Rectification
- Up to 500kHz Switching Frequency
- High-Power (1.74W), Small-Footprint 20-Pin Thermally Enhanced TSSOP Package

#### *Applications/Uses*

- 48V Input, Isolated Power-Supply Modules
- ADSL Line Cards
- ADSL Line-Driver Power Supplies
- Distributed Power Systems with 48V Bus
- High-Efficiency Telecom/Datacom Power Supplies
- IEEE 802.3af PD Power Supplies
- Isolated IP Phone Power Supplies
- WLAN Access-Point Power Supplies

Part Number	Package
MAX5074AAUP+	TSSOP-EP; 20Pin; 42.9mm <sup>2</sup>

Part Number	Package
MAX5074AAUP+T	TSSOP-EP; 20Pin; 42.9mm <sup>2</sup>