



New Product Announcement

AP65500
AP65400

Light Load Improved 5/4A Synch DC/DC Buck Converter

The AP65500 AP65400 are 340kHz switching frequency external compensated synchronous DC/DC buck converters. Integrated low $R_{DS(ON)}$ high and low side MOSFETs.

The devices enable continued load current of up to 5/4A with efficiency as high as 96%.

The AP65500 and AP65400 implement an automatic custom light load efficiency improvement algorithm.

The AP65500 and AP65400 simplify board layout and reduces space requirements with high level of integration and minimal need for external components, making it ideal for distributed power architectures.

Both are available in a standard Green SO-8EP package that is RoHS compliant.



The Diodes Advantage

- **Synchronous DCDC Buck converter with continued load current of 5A (4A) and peak of 7A**
 - Increases efficiency in light load condition
 - Standard industry pinout
- **Protection**
 - **Over Current Protection with hiccup**
 - **Thermal Shutdown**Improves robustness of circuit and prevents pre-mature failure
- **Standard SO-8EP package**
 - **Identical pinout for 2-5A devices for easy change to adjust for customer requirements**

Applications

- Game Consoles
- TV and Monitors
- Set-top Box
- Network Systems
- Distributed Power Systems
- Home Audio
- Consumer Electronics
- Green Electronics

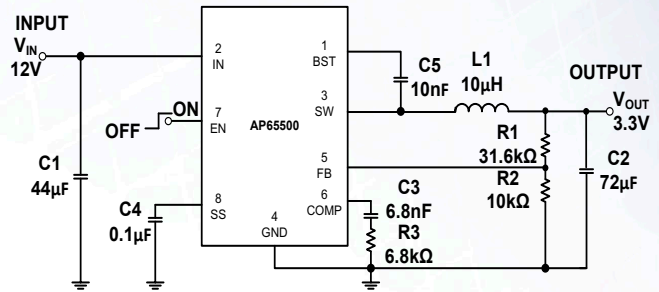
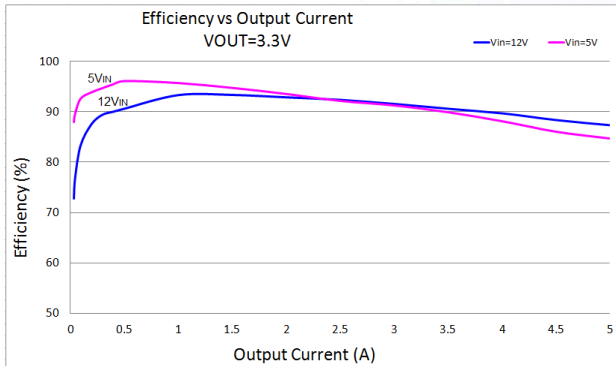
New Product Announcement

AP65500 AP65400



Light Load Improved 5/4A Synch DC/DC Buck Converter

AP65500



Product Portfolio

Part #	Min. Input Voltage (V)	Max. Input Voltage (V)	Output Voltage (V)	Output Current (A)	Frequency (kHz) typ	Internal Vref (V) typ	Efficiency (%)	Standby Quiescent Current (µA) typ	Operating Ambient Temp Range (°C)	Features							Available Packages
										Enable Pin	Current Limit Protection	Thermal Shutdown	Adjustable Output Voltage	Under Voltage Lockout	Programmable Softstart	Power Good	
AP65400	4.75	18	0.925 to 16	4	340	0.925	96	3	-40 to +85	X	X	X	X	X	X	X	SO-8EP
AP65500	4.75	18	0.925 to 16	5	340	0.925	96	3	-40 to +85	X	X	X	X	X	X	X	SO-8EP

Ordering information

Device	Packaging	\$ @ 250k	Reel Size	Quantity
AP65400SP-13	SO-8EP	0.45	13"	2500
AP65500SP-13	SO-8EP	0.49	13"	2500

To find out more information:

AP65500

Datasheet <http://www.diodes.com/datasheets/AP65500.pdf>
Product Page http://diodes.com/catalog/buck_converter_57/ap65500.html

AP65400

Datasheet <http://www.diodes.com/datasheets/AP65400.pdf>
Product Page http://diodes.com/catalog/buck_converter_57/ap65400.html