



New Product Announcement

AP65111A & AP65211A

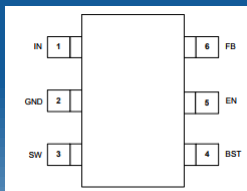
1.5A/2A Synchronous DC/DC Buck Converter

The AP65111A and AP65211A are current-mode synchronous buck converters providing high efficiency, excellent transient response and high DC output accuracy. Both incorporate control algorithms that improve efficiency at light loads (see overleaf)

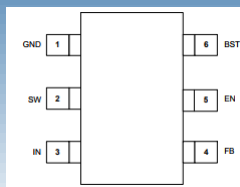
The AP65111A and AP65211A operate at a fixed 500kHz switching frequency which provides a good balance between low power dissipation and small solution size form factor.

The AP65111A and AP65211A also features UVLO, OTP and OCP to protect the circuit.

The AP65111A and AP65211A are available in TSOT26 package providing a high power density leaded solution.



AP65111A



AP65211A



The Diodes Advantage

High efficiency synchronous DC-DC Buck converters across all output powers in TSOT26 covering wide range of POL applications

- **Fixed frequency Current-mode converter with HLLC**
Improves transient response with increased efficiency in light-load conditions
- **Multiple Protection Levels**
 - **Over-Current Protection**
 - **Over-Voltage Protection**
 - **Thermal Shutdown**
 - **UVLO**Improves robustness of circuit and prevents pre-mature failure
- **Small footprint leaded TSOT26 Package**
Saves PCB spacing and cost in an industry Standard pin-out

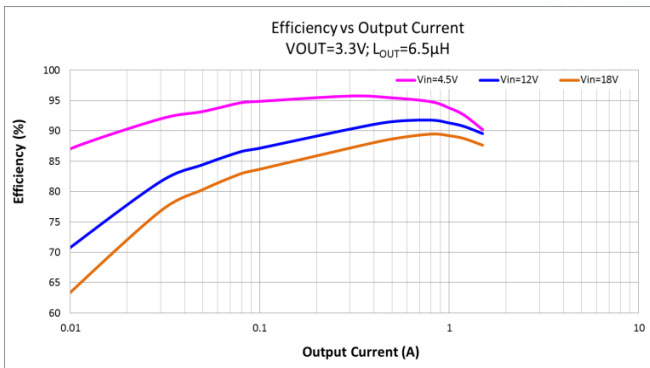
Applications

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

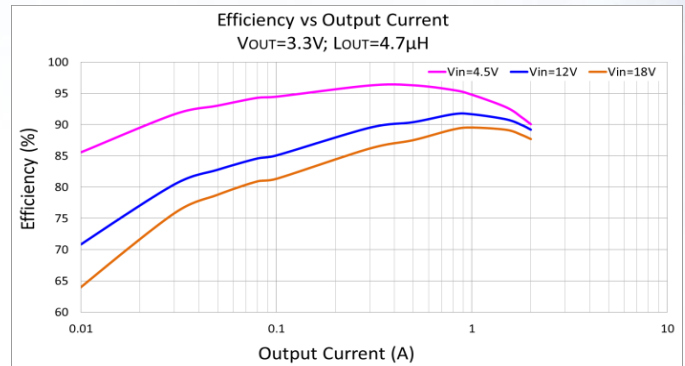


1.5A & 2A Current Mode DC-DC Buck Converters

AP65111A



AP65211A



Ordering information

Device	Packaging	Reel Size	Quantity
AP65111AWU-7	TSOT-26	7"	3000
AP65211AWU-7	TSOT-26	7"	3000

Product Portfolio

Part #	Min. Input Voltage (V)	Max. Input Voltage (V)	Output Voltage (V)	Output Current (A)	Frequency (kHz) typ	Internal Vref (V)	Efficiency (%)	Control Architecture	Quiescent Current (mA)	Operating Ambient Temp Range (°C)	Features							Available Packages
											Enable Pin	Current Limit Protection	Thermal Shutdown	Adjustable Output Voltage	Under Voltage Lockout	Programmable Soft start	Power Good	
AP65111A	4.5	18	0.8~12	1.5	500	0.800	97	CM	0.83	-40 to +85	Y	Y	Y	Y	Y	No	No	TSOT-26
AP65211A	4.5	18	0.8~12	2	500	0.800	97	CM	0.83	-40 to +85	Y	Y	Y	Y	Y	No	No	TSOT-26
AP3503E	4.5	18	0.93~12	3	340	0.925	93	CM	1.2	-40 to +85	Y	Y	Y	Y	Y	Y	No	SO-8EP
AP3513E	4.5	18	0.93~12	3	500	0.925	93	CM	1.2	-40 to +85	Y	Y	Y	Y	Y	Y	No	SO-8EP
AP65353/5	4.5	18	0.76~6	3	650	0.765	92	ACOT	0.6	-40 to +85	Y	Y	Y	Y	Y	Y	Y	SO-8EP DFN3030-10
AP65450	4.5	18	0.76~6	4	650	0.765	92	ACOT	0.9	-40 to +85	Y	Y	Y	Y	Y	Y	Y	DFN3030-10
AP65550	4.5	18	0.76~6	5	650	0.765	92	ACOT	0.9	-40 to +85	Y	Y	Y	Y	Y	Y	No	SO-8EP DFN3030-10