

New Product Announcement AP3917B/C/D

Low Standby Power, High-Voltage, Non-Isolated Buck Power Switcher for Appliances and IoT

The AP3917B/C/D is a family of universal AC, high-voltage input, step-down power switchers with different HV MOS switches to support various power applications.

- AP3917B 2W
- AP3917C 4W
- AP3917D 6W

The devices provide a simple power supply solution for smart home appliances, home automation, industrial control, and IoT power applications. Supporting both non-isolated buck or offline flyback topology solutions, they have several differentiating advantages:

- Low standby power
- High light-load efficiency
- Cost-saving BOM
- Rich protection functions to ensure reliable operation

All three are available in SO-7 package that supports HV creepage requirements.



The Diodes Advantage

- Low System BOM Cost Non-isolated buck configuration removes expensive components
- Low Standby Power (<30mW)</p>
 Beats latest standby power requirements
- High Light-Load Efficiency Ideal for IoT devices and other equipment that spends large periods time sleeping
- Rich Protection: OTP, OLP, SCP Ensures reliable operation
- Industry-Standard Footprint Compatible Family Matches various power requirements B/C/D - 2W/4W/6W output power

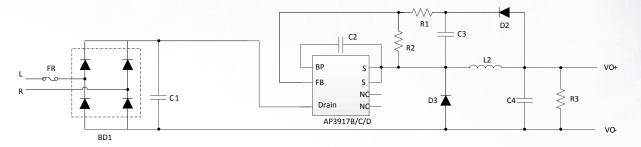
Applications

- Smart Home Appliances
- Industrial Controls
- Home Automation
- IoT Power
- Standby and Auxiliary Power





Typical Application Circuit



Product Portfolio

Part Number	Application	Start-Up Current	UVLO Threshold on/off (V)	R _{DS(ON)} (Ω)	BV _{DSS} (V)	Peak Current (mA)	Standby Power (mW)	Power Rating (W)	Package
AP3917B	Small Appliance IoT	10	8.0/8.3	16	650	170	< 30	2	SO-7
AP3917C		10	8.0/8.3	12	650	270	< 30	4	SO-7
AP3917D		10	8.0/8.3	10.5	700	370	< 30	6	SO-7

Ordering Information

Part Number	Package	Temperature Range	Marking ID	Packing	
AP3917BS7-13	SO-7	-40°C to +125°C	3917B	4000/Tape & Reel	
AP3917CS7-13	SO-7	-40°C to +125°C	3917C	4000/Tape & Reel	
AP3917DS7-13	SO-7	-40°C to +125°C	3917D	4000/Tape & Reel	