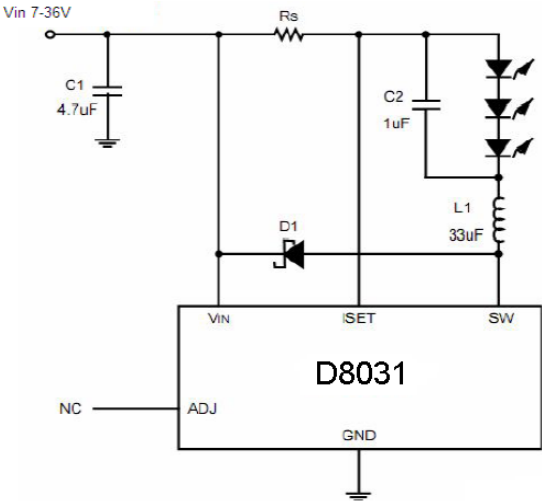



Product Item	D8031
Product Info	1A, 36V High Voltage LED Driver
Product Brief Introduction	<p>The D8031 is a continuous mode inductive step-down converter, designed for driving single or multiple series connected LEDs efficiently from a voltage source higher than the LED voltage. The device operates from an input supply between 7V and 36V and provides an externally adjustable output current of up to 1A. Depending on supply voltage and external components, this can provide up to 10 watts of output power. The D8031 includes the output switch and a high-side output current sensing circuit, which uses an external resistor to set the nominal average output current. Output current can be adjusted below the set value, by applying an external control signal to the ADJ pin. The ADJ pin will accept either a DC voltage or a PWM waveform.</p> <p>The PWM filter provides a soft-start feature by controlling the rise of input/output current. The soft-start time can be increased using an external capacitor from the ADJ pin to ground. Applying a voltage of 0.35V or lower to the ADJ pin turns the output off and switches the device into a low current standby state.</p>
Product Feature	<ul style="list-style-type: none"> ● Wide input voltage range : 7V to 36V ● Simple low parts count ● Internal 40V NDMOS switch ● 1A output current ● Single pin on /off and brightness control Using DC voltage or PWM ● Internal PWM filter ● Soft -start function ● High efficiency (up to 95 %) ● Cycle by cycle current limit ● PFM mode. Switching frequency up to 1.0 MHz ● Inherent open -circuit LED protection ● Typical 4 % output current accuracy ● SOT89-5L , SOP8
Typical Application	<ul style="list-style-type: none"> ● Low voltage halogen replacement LEDs ● Automotive lighting ● Low voltage industrial lighting ● MR16 lighting

Operating Diagram	
Output Max Current	1A
Control Method	CCM
Typical Efficiency	90% @ 5W
Dimming	N/A
Power Mos	Int
Linear Adjustment Rate	±4%
Load Adjustment Rate	±4%
Batch Consistency	±4%
Package	SOP-23-89
Datasheet Download	 Click here to download datasheet
Purchase	Contact customer service