

**GREEN MODE PWM CONTROLLER****AP3101****Description**

The AP3101 is a green PWM controller operating in current mode. It is specifically designed for off-line AC-DC adapter and battery charger applications where the needs for low standby power and better protection function are increasing.

The AP3101 features adjustable oscillator frequency in normal operation, which is done by an external resistor. It automatically switches to skip cycle mode when output power drops below a given level. The IC also features low start-up and operation current for its BiCMOS process.

The AP3101 provides comprehensive protection features including leading edge blanking, synchronized slope compensation, over-current, over-temperature and short circuit protection.

Features

- Green Current Mode PWM Controller
- Adjustable Skip Level
- Leading Edge Blanking (LEB)
- Cycle by Cycle Current Limit
- Built-in Short Circuit Protection
- Built-in Synchronized Slope Compensation
- Low Start-up/Operating Current: 30 μ A/3mA
- Adjustable Oscillator Frequency
- Totem Pole Output Including Soft Driving
- Under-Voltage Lockout (UVLO)
- Accurate Over-Temperature Protection with Hysteresis

Applications

- Off-line AC-DC Adapter
- Battery Charger Applications

Parametric Table

Start-up Current (μ A) (Typ)	30
UVLO Threshold on/off (V) (Typ)	16/10
Maximum Duty Cycle (%) (Typ)	80
Frequency Stability with V_{CC} (%) (Max)	2
Frequency Stability with Temperature (%) (Max)	5
Shutdown Temperature ($^{\circ}$ C)	155
Package	SOIC-8 DIP-8

Benefits

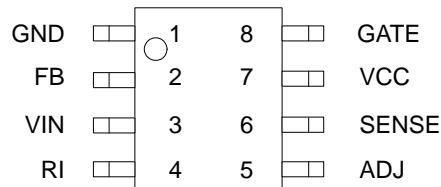
- Green Power Solution
- Very Competitive Price

Additional Available Materials

- Samples
- Data Sheet
- ESD Report
- Demo Board
- Application Note

**GREEN MODE PWM CONTROLLER****AP3101****Pin Configuration**

SOIC-8/DIP-8

**Ordering Information Example**

Package	Temperature Range	Part Number		Marking ID		Packing Type
		Lead Free	Green	Lead Free	Green	
SOIC-8	-40 to 85°C	AP3101M-E1	AP3101M-G1	3101M-E1	3101M-G1	Tube
		AP3101MTR-E1	AP3101MTR-G1	3101M-E1	3101M-G1	Tape & Reel
DIP-8	-40 to 85°C	AP3101P-E1	AP3101P-G1	AP3101P-E1	AP3101P-G1	Tube

Detailed information please refer to the relevant datasheet.

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