

GENERAL DESCRIPTION

The MA3056 series is a high voltage, ultralow-power, low dropout voltage regulator. The device can deliver 150mA output current and allows an input voltage as high as 60V. The typical quiescent current is only 2 μ A. The device is available in fixed output voltages of 3.0V, 3.3V and 5.0V. The device features integrated short-circuit and thermal shutdown protection.

Although designed primarily as fixed voltage regulators, the device can be used with external components to obtain variable voltages.

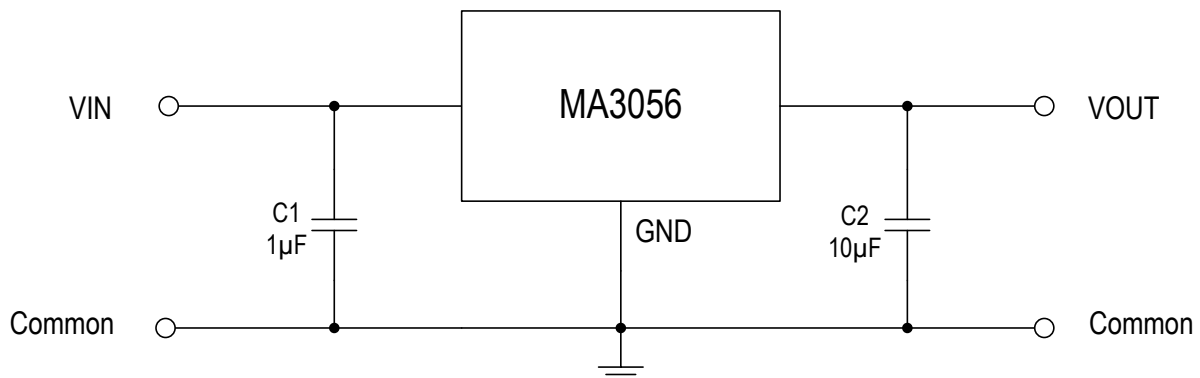
FEATURES

- Low Quiescent Current : 2 μ A
- High Input Voltage : Up to 60V
- High Output Current: 150mA
- Without Overshoot in Start Up
- Without Overshoot after Short Circuits Removed
- Low Dropout Voltage :
70mV@10mA
700mV@100mA
- Fixed Output Voltages : 3.0V, 3.3V and 5.0V.
- High-accuracy Output Voltage : $\pm 2\%$
- Good Transient Response
- High PSRR: 70dB @ 1KHz
- Integrated Short-Circuit Protection
- Integrated Thermal Protection
- Available Package : SOT23-3L

APPLICATIONS

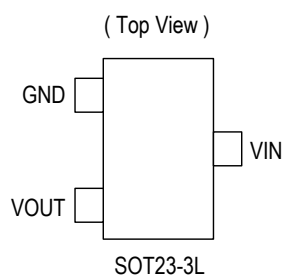
- Battery-Powered Equipment
- Smoke Detector and Sensor
- Portable Equipment
- Audio/Video Equipment

BASIC CIRCUIT



PIN ASSIGNMENT

The pin assignment is given by:



Name	Description
GND	Ground pin
VOUT	Regulator output pin
VIN	Regulator input supply pin

ORDER / MARKING INFORMATION

Order Information	Top Marking
<p>MA3056 X XX X → Packing</p> <p>Blank: Bag</p> <p>A : Taping</p> <p>Package Type Output Voltage</p> <p>A: SOT23-3L 30: 3.0V</p> <p> 33: 3.3V</p> <p> 50: 5.0V</p>	<p>5 6 X X B → B: Output accuracy ± 2%</p> <p>Y WW X → Output Voltage</p> <p>30: 3.0V</p> <p>33: 3.3V</p> <p>50: 5.0V</p> <p>Internal Code</p> <p>WW: 01~52</p> <p>Y: Year</p> <p>0: 2020</p> <p>MA3056</p>