

LT3085EDCB#TRMPBF

Data Sheet

LDO Regulator Pos 0V to 36V 0.5A Automotive 6-Pin DFN EP T/R

Manufacturers	Analog Devices, Inc	
Package/Case	DFN6	
Product Type	Power Management ICs	
RoHS	Pb-free Halide free	
Lifecycle		Images are for reference only

Please submit RFQ for LT3085EDCB#TRMPBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The LT3085 is a 500mA low dropout linear regulator that can be paralleled to increase output current or spread heat on surface mounted boards. Designed as a precision current source and voltage follower, this new regulator finds use in many applications requiring high current, adjustability to zero, and no heat sink. The device also brings out the collector of the pass transistor to allow low dropout operation—down to 275mV—when used with a second supply.

A key feature of the LT3085 is the capability to supply a wide output voltage range. By using a reference current through a single resistor, the output voltage is programmed to any level between zero and 36V. The LT3085 is stable with 2.2μ F of capacitance on the output, and the IC uses small ceramic capacitors that do not require additional ESR as is common with other regulators.

Internal protection circuitry includes current limiting and thermal limiting. The LT3085 is offered in the 8-lead MSOP and a low profile (0.75mm) 6-lead $2mm \times 3mm$ DFN package (both with an Exposed Pad for better thermal characteristics).

Features

Outputs May be Paralleled for Higher Current and Heat Spreading

Output Current: 500mA

- Single Resistor Programs Output Voltage
- 1% Initial Accuracy of SET Pin Current
- Output Adjustable to 0V
- Current Limit Constant with Temperature
- Low Output Noise: 40µVRMS (10Hz to 100kHz)
- Wide Input Voltage Range: 1.2V to 36V
- Low Dropout Voltage: 275mV
- Minimum Load Current: 0.5mA
- Stable with Minimum 2.2µF Ceramic Capacitor
- Current Limit with Foldback and Overtemperature Protected
- 8-Lead MSOP, and 6-Lead 2mm × 3mm DFN Packages

Related Products



LT3763EFE Analog Devices, Inc TSSOP28

Analog Devices, Inc

LTC4417IUF

QFN-24





LTC1966CMS8#PBF Analog Devices, Inc MSOP-8P



LTM8045EY#PBF Analog Devices, Inc BGA40









Application

High Current All Surface Mount Supply

High Efficiency Linear Regulator

Post Regulator for Switching Supplies

Low Parts Count Variable Voltage Supply

Low Output Voltage Power Supplies



LT1038CK

Analog Devices, Inc TO-3

LTC3440EMS

Analog Devices, Inc MSOP10

LTC2990IMS#PBF

Analog Devices, Inc 10MSOP

LT4295IUFD#PBF

Analog Devices, Inc 28-WFQFN