

# SMALLEST 500mA LOW-DROPOUT LINEAR REGULATOR FITS IN 2.3mm<sup>2</sup> UCSP

Maxim's Chip-Scale Package (UCSP™) Saves Space for PDAs, Cell Phones, & Digital Cameras

**72% SMALLER**

**MAX1819  
500mA LDO**

AREA = 2.3mm<sup>2</sup>

P<sub>DISS</sub> = 840mW

**SMALLEST  
COMPETITOR**

AREA = 8.1mm<sup>2</sup>

P<sub>DISS</sub> = 800mW

The MAX1819 is the smallest 500mA low-dropout linear regulator available, fitting in a 0.5mm pitch, 2.3mm<sup>2</sup> UCSP. It operates from a 2.5V to 5.5V supply and delivers a guaranteed 500mA load current with only 133mV dropout. Features include an active-low, open-drain reset output that indicates when the output is out of regulation, a very low 0.1µA shutdown current, short-circuit protection, and thermal overload protection.

- ◆ 6-Pin 2.3mm<sup>2</sup> UCSP (Uses 3 x 3 Grid)
- ◆ Low 133mV Dropout at 500mA
- ◆ ±1% Output Voltage Accuracy
- ◆ Preset Output Voltage at 1.5V, 1.8V, 2.0V, 2.5V, 3.3V, 5V, or Adjustable from 1.25V to 5.5V
- ◆ 500mA Guaranteed Output Current
- ◆ Low 125µA Ground Current
- ◆ 0.1µA Shutdown Current
- ◆ Thermal Overload Protection
- ◆ Priced at \$1.20<sup>†</sup>

<sup>†</sup>1000-up recommended resale. Price provided is for design guidance and is FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities. UCSP is a trademark of Maxim Integrated Products, Inc.



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