

LDO Regulator Pos 3.3V 1.5A 3-Pin(2+Tab) D2PAK T/R

Manufacturer:	STMicroelectronics, Inc
Package/Case:	TO-263-3
Product Type:	Power Management ICs
Lifecycle:	Active



Images are for reference only

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General Description

The LD1086 is a low drop voltage regulator capable of providing up to 1.5 A of output current. Dropout is guaranteed at a maximum of 1.2 V at the maximum output current, decreasing at lower loads. The LD1086 is pin-to-pin compatible with older 3-terminal adjustable regulators, but has better performance in terms of drop and output tolerance. Unlike PNP regulators, where a part of the output current is wasted as quiescent current, the LD1086 quiescent current flows into the load, increasing efficiency. Only a 10 μ F (minimum) capacitor is needed for stability. The device is available in a TO-220, D2PAK, D2PAK/A, DPAK or DFN8 (4x4) package. On-chip trimming allows the regulator to reach a very tight output voltage tolerance; within $\pm 1\%$ at 25 °C. The LD1086 is available as automotive grade for adjustable output voltages in the TO-220 and DPAK packages. The PAT, SYL, SBL statistical tests have been performed, and the devices are qualified according to the AEC-Q100 specification for the automotive market in the temperature range of - 40 °C to 125 °C.

Key Features

Typical dropout: 1.3V at 1.5A

Three-terminal adjustable or fixed output voltage: 1.8V, 2.5V, 3.3V, 5V, 12V

Automotive grade (adjustable V_{OUT} in TO-220 and DPAK packages only)

Output current guaranteed up to 1.5A

Output tolerance: $\pm 1\%$ at 25°C and $\pm 2\%$ in full temperature range

Internal power and thermal limit

Wide operating temperature range -40°C to 125°C

Package available: TO-220, D2PAK, D2PAK/A, DPAK and DFN8 (4x4)

Pinout compatibility with standard adjustable voltage regulators



Recommended For You

LD2981CU50TR

STMicroelectronics, Inc
SOT-89

LD2981ABU33TR

STMicroelectronics, Inc
SOT-89

VNLD5160TR-E

STMicroelectronics, Inc
SOP8

LD39100PUR

STMicroelectronics, Inc
DFN6

LDK120M30R

STMicroelectronics, Inc
SOT-23-5

LDK320M50R

STMicroelectronics, Inc
SOT23-5

LD39015MI8R

STMicroelectronics, Inc
SOT23-5

LDL1117S30R

STMicroelectronics, Inc
SOT-223

LDLN050PU33R

STMicroelectronics, Inc
DFN-EP8

LDK715M33R

STMicroelectronics, Inc
SOT23-5

LD2981ABM50TR

STMicroelectronics, Inc
SOT23-5

LD39015MI0R

STMicroelectronics, Inc
SOT23-5

LD1086D2T50TR

STMicroelectronics, Inc
TO-263

LD1117V18

STMicroelectronics, Inc
TO-220

LD59150PURY

STMicroelectronics, Inc
DFN10