

LD108x Low Drop Positive Voltage Regulators

From 1.5 to 5A Fixed and Adjustable

The LD108x family of Low Drop Voltage Regulators provides an output current up to 5A, 3A and 1.5A. Drop out is guaranteed at a maximum of 1.5V at the maximum output current, over the full temperature range decreasing at lower loads. The LD108x family is pin compatible with older 3-terminal adjustable regulators and offers better performance in terms of drop and output tolerance. On chip trimming allows the regulator to reach a very tight output voltage tolerance, within $\pm 1\%$ at 25°C. Pin to pin compatible with the market standards, the LD108x family is an ideal candidate to replace, and even upgrade your applications.

Segments & Applications

- Desktop PC
 - Graphics & Sound Chipset
 - Palmtop/ Laptop Computer
 - Post Regulators for Switching Power Supplies
 - VCR
- ASIC & Low Voltage ICs Supplies
 - Camcorder
 - Personal Stereo
 - Memory Cards
 - Battery Chargers
 - TV SET
 - Monitors

Key Features

	Unit	LD1084	LD1085	LD1086
Dropout Voltage	V	1.3 @ 5A	1.3 @ 3A	1.3 @ 1.5A
Quiescent Current	mA	5	5	5
Output Current	A	5	3	1.5
Output Voltages	V	1.8 - 2.5 - 2.85 - 3.3 - 3.6 - 5 - 8 - 9 - 12 - Adjustable		
Vout Tolerance	%	$\pm 1\%$ @ 25°C - $\pm 2\%$ @ full T° range		
Supply Voltage				
Rejection (SVR)	dB	80	80	80
T° Range	°C	-40 / +125	-40 / +125	-40 / +125
Packages		D ² PAK D ² PAK/A TO-220	TO-220 D ² PAK DPAK D ² PAK/A	TO-220 D ² PAK DPAK D ² PAK/A



Ordering Information

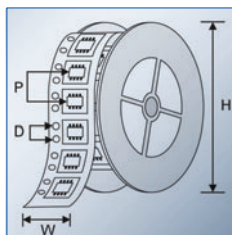
Output Voltage	TO-220	DPAK*	D ² PAK*	D ² PAK/A*
1.8V	LD108xV18	LD108xDT18	LD108xD2T18	LD108xD2M18
2.5V	LD108xV25	LD108xDT25	LD108xD2T25	LD108xD2M25
2.85V	LD108xV28	LD108xDT28	LD108xD2T28	LD108xD2M28
3.3V	LD108xV33	LD108xDT33	LD108xD2T33	LD108xD2M33
3.6V	LD108xV36	LD108xDT36	LD108xD2T36	LD108xD2M36
5.0V	LD108xV50	LD108xDT50	LD108xD2T50	LD108xD2M50
8.0V	LD108xV80	LD108xDT80	LD108xD2T80	LD108xD2M80
9.0V	LD108xV90	LD108xDT90	LD108xD2T90	LD108xD2M90
12V	LD108xV120	LD108xDT120	LD108xD2T120	LD108xD2M120
ADJ version	LD108xV	LD108xDT	LD108xD2T	LD108xD2M
	x = 4 or 5 or 6	x = 5 or 6	x = 4 or 5 or 6	x = 4 or 5 or 6

*Available in Tape & Reel with the suffix "TR"

Tape & Reel Specification

Dimension	D ² PAK	D ² PAK/A	DPAK*
H (mm)	330	330	330
W (mm)	30.4	30.4	22.4
P (mm)	16	16	8
D (mm)	4	4	4
Qty/Reel	500	500	500

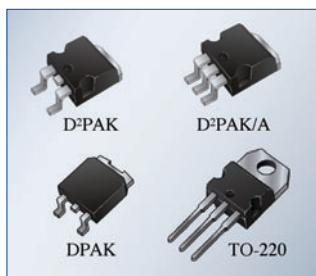
* LD1085 & LD1086 only



Pin Configuration

Pin N°	Symbol	Name and Function
1	ADJ/GND	ADJ or Ground* Pin
2	OUT	Output Pin
3	IN	Input Pin

* for fixed versions



Cross Reference

ST	Cherry	Linear Tech	Semtech	Linfinity
LD1084	CS5205	LT1084	EZ1084	LX8384
LD1085	CS5283	LT1085	EZ1085	LX8385
LD1086	CS52015	LT1086	EZ1086	LX8386



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Full product information at www.st.com/vregs

