

ILC7062

SOT-23 CMOS LDO

Features

- Low Power Consumption: typ 2.0 μ A at $V_{OUT} = 5V$
- All-CMOS design in SOT-23 and SOT-89 packages gives optimal size and power performances.
- Highly accurate output $\pm 2\%$ ($\pm 1\%$)
- Maximum output current: 250mA (Limited to 150mW power dissipation SOT-23, 500mW SOT-89)
- Output Voltage Range: 2.0V to 6.0V

Applications

- Battery-powered Equipment
- Reference voltage sources
- Palmtops
- Portable cameras and video recorders

Description

250mA CMOS LDO in a SOT-23 package, featuring 120mV of dropout voltage at 100mA and 380mV at 200mA current levels.

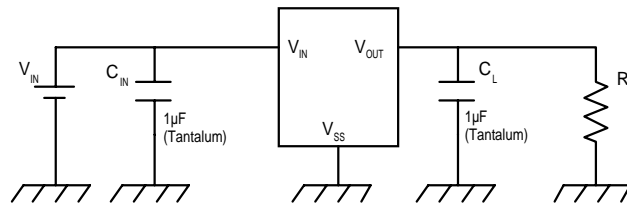
The part offers $\pm 2\%$ accuracy on outputs, yet draws only 2 μ A of current. Short-circuit protection is standard.

The part comes in both 3-lead SOT-23 (150mW) and 3-lead SOT-89 (500mW) to handle a variety of voltage and current levels.

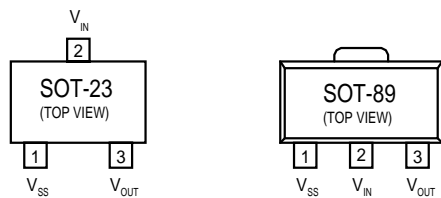
Transient response to load variations have improved in comparison to the existing series.

Low Power consumption and high accuracy is achieved through CMOS and laser trimming technologies.

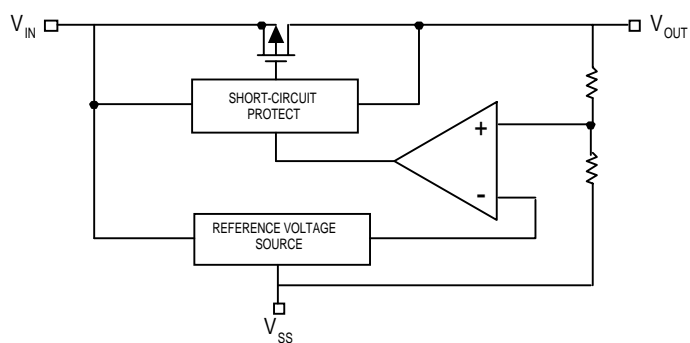
Typical Applications



Pin Assignments



Internal Block Diagram



Absolute Maximum Ratings

Parameter	Symbol	Ratings	Units	
Input Voltage	V_{IN}	12	V	
Output Current (Note 3)	I_{OUTmax}	500	mA	
Output Voltage (Note 1)	V_{OUT}	$V_{SS}-0.3 \sim V_{IN}+0.3$	V	
Continuous Total Power Dissipation	SOT-23	P_D	150	mW
	SOT-89		500	
Operating Ambient Temperature	T_{opr}	-40~+85	°C	
Storage Temperature	T_{stg}	-40~+125	°C	

Electrical Characteristics ILC7062CP-50

$T_A = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	V_{OUT}	$I_{OUT} = 40\text{mA}$, $V_{IN} = 6.0\text{V}$	4.90	5.0	5.10	V
Maximum Output Current	$I_{OUT\text{max}}$	$V_{IN} = 6.0\text{V}$, $V_{OUT} \geq 4.5\text{V}$	250			mA
Load Stability	ΔV_{OUT}	Conditions		40	80	mV
Input/Output Voltage Differential (Note 2)	V_{dif}	$I_{OUT} = 100\text{mA}$ $I_{OUT} = 200\text{mA}$		120 380	300 600	mV
Supply Current	I_{SS}	$V_{IN} = 6.0\text{V}$		2	4.5	μA
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $6.0\text{V} \leq V_{IN} \leq 10.0\text{V}$		0.2	0.3	%/V
Input Voltage	V_{IN}				10.0	V
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $-40^\circ\text{C} \leq T_{opr} \leq 85^\circ\text{C}$		± 100		ppm/ $^\circ\text{C}$

Notes:

- V_{OUT} means the output voltage when " $V_{OUT} + 1.0\text{V}$ " is provided at the V_{IN} pin while maintaining a certain I_{OUT} value.
- V_{dif} is defined as " $V_{IN} - V_{OUT}$ " where $V_{OUT} = V_{SET} \times 0.98$.
- $I_{OUT\text{max}}$ = This is specified for SOT-89 package. For SOT-23, it is limited by continuous total power dissipation.

Electrical Characteristics ILC7062CP-33

$T_A = ^\circ\text{C}$

Parameter	Symbol	Conditons	Min.	Typ.	Max.	Units
Output Voltage	V_{OUT}	$I_{OUT} = 40\text{mA}$, $V_{IN} = 4.3\text{V}$	3.234	3.300	3.366	V
Maximum Output Current	$I_{OUT\text{max}}$	$V_{IN} = 4.3\text{V}$, $V_{OUT} \geq 2.97\text{V}$	50			mA
Laod Stability	DV_{OUT}	$V_{IN} = 4.3\text{V}$, $1\text{mA} \leq I_{OUT} \leq 80\text{mA}$		45	90	mV
Input/Output Voltage Differential (Note 2)	V_{dif}	$I_{OUT} = 80\text{mA}$ $I_{OUT} = 160\text{mA}$		180 400	360 700	mV
Supply Current	I_{SS}	$V_{IN} = 4.0\text{V}$		2	4.5	μA
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $4.3\text{V} \leq V_{IN} \leq 10.0\text{V}$		0.2	0.3	%/V
Input Voltage	V_{IN}				10.0	V
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $-30^\circ\text{C} \leq T_{opr} \leq 80^\circ\text{C}$		± 100		ppm/ $^\circ\text{C}$

Electrical Characteristics ILC7062CP-30

$T_A = 25^\circ\text{C}$

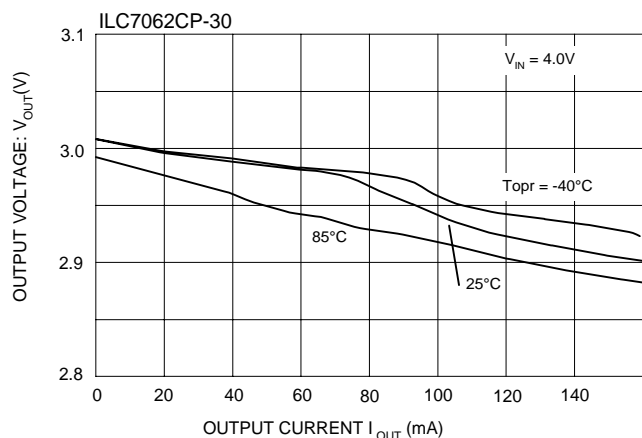
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	V_{OUT}	$I_{OUT} = 40\text{mA}$, $V_{IN} = 4.0\text{V}$	2.94	3.0	3.06	V
Maximum Output Current	I_{OUTmax}	$V_{IN} = 4.0\text{V}$, $V_{OUT} \geq 2.7\text{V}$	150			mA
Load Stability	ΔV_{OUT}	$V_{IN} = 4.0\text{V}$, $1\text{mA} \leq I_{OUT} \leq 80\text{mA}$		45	90	mV
Input/Output Voltage Differential (Note 2)	V_{dif}	$I_{OUT} = 80\text{mA}$ $I_{OUT} = 160\text{mA}$		180 400	360 700	mV
Supply Current	I_{SS}	$V_{IN} = 4.0\text{V}$		2	4.5	μA
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot \Delta V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $4.0\text{V} \leq V_{IN} \leq 10.0\text{V}$		0.2	0.3	%/V
Input Voltage	V_{IN}				10.0	V
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $-30^\circ\text{C} \leq T_{opr} \leq 80^\circ\text{C}$		± 100		ppm/ $^\circ\text{C}$

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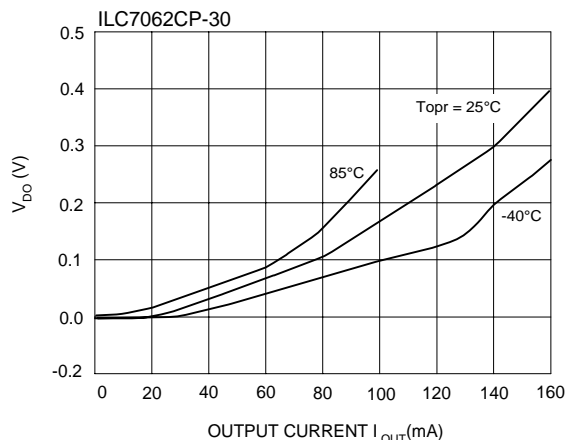
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Typical Performance Characteristics General conditions for all curves

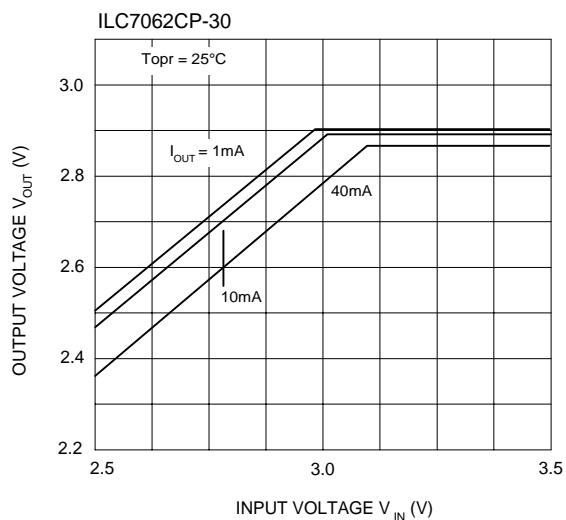
Output Voltage vs Output Current



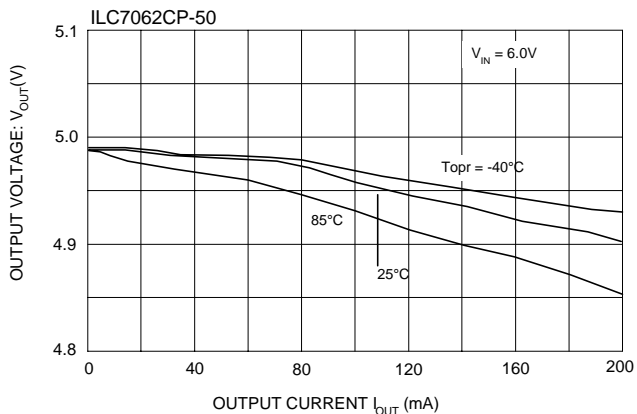
V_{DO} vs Output Current



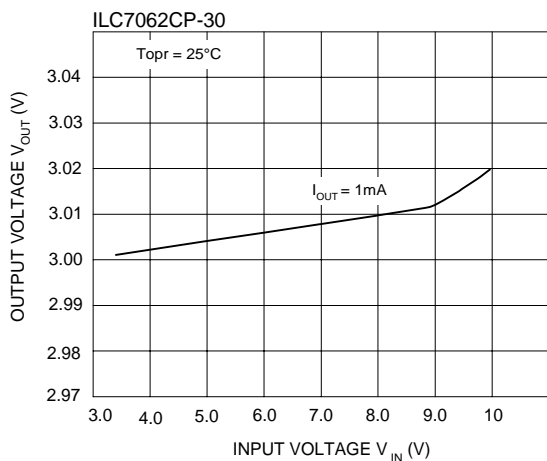
Output Voltage vs Input Voltage



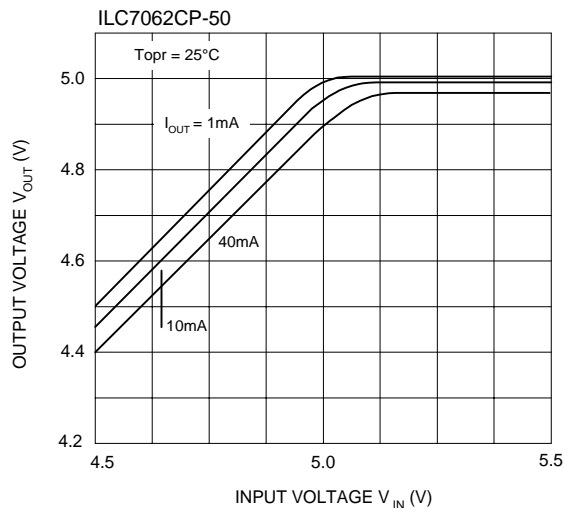
Output Voltage vs Output Current



Output Voltage vs Input Voltage

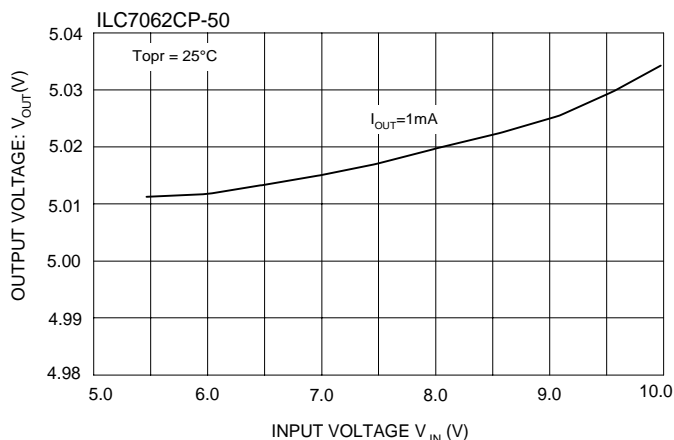


Output Voltage vs Input Voltage

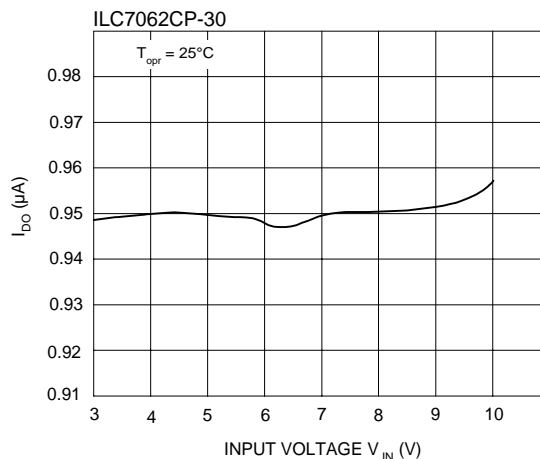


Typical Performance Characteristics General conditions for all curves

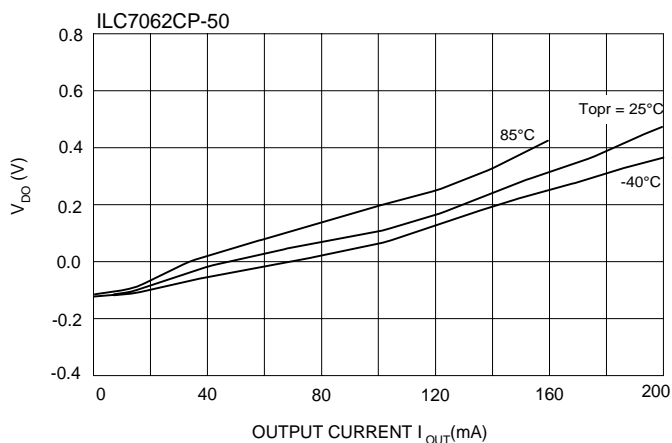
Output Voltage vs Input Voltage



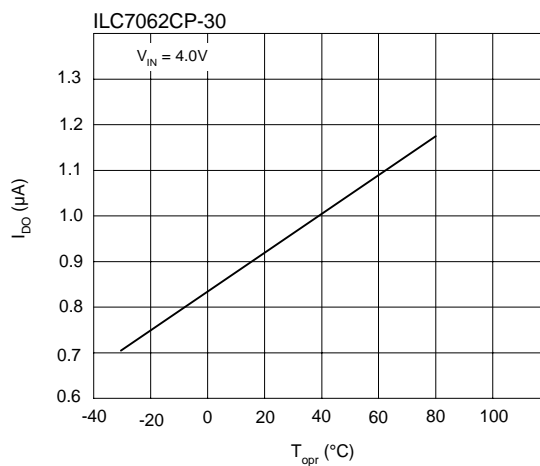
I_{DD} vs Input Voltage



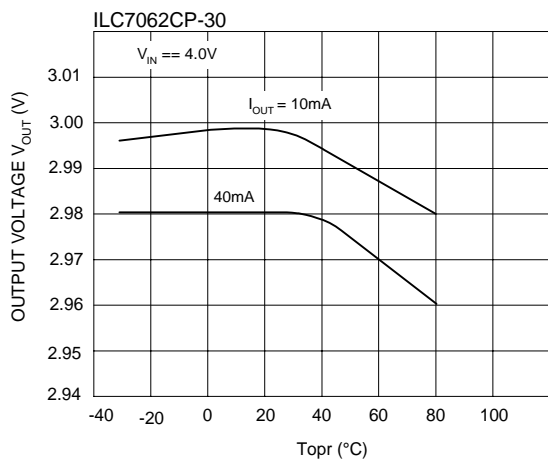
V_{DO} vs Output Current



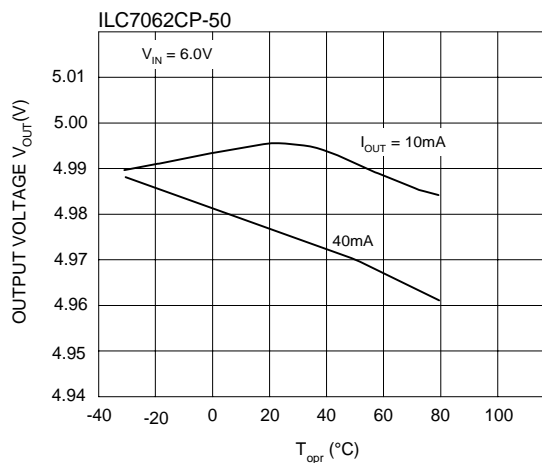
I_{DD} vs T_{opr}



Output Voltage vs Temperature

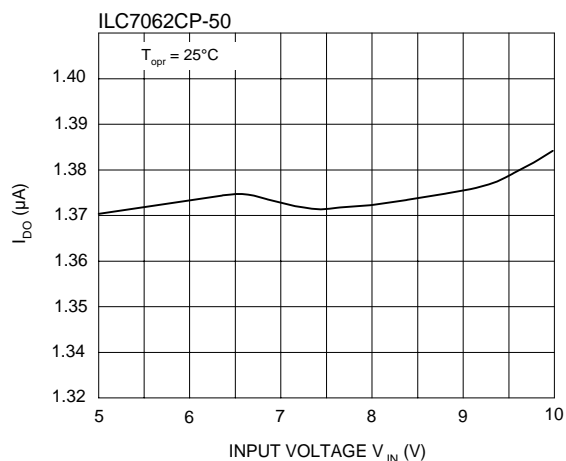


Output Voltage vs Temperature

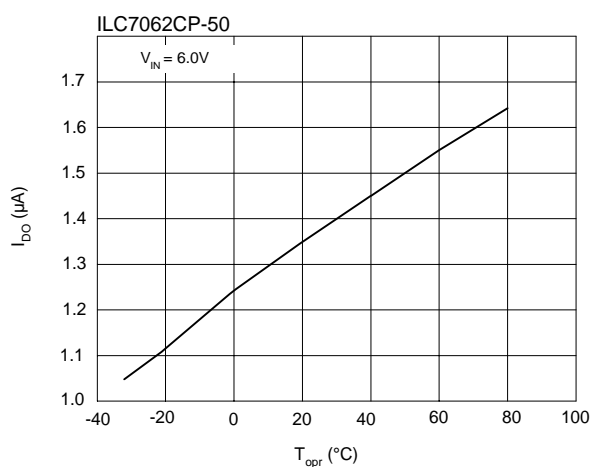


Typical Performance Characteristics General conditions for all curves

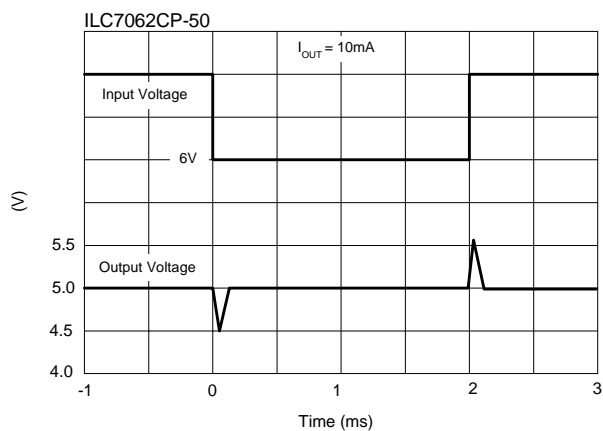
I_{DD} vs Input Voltage



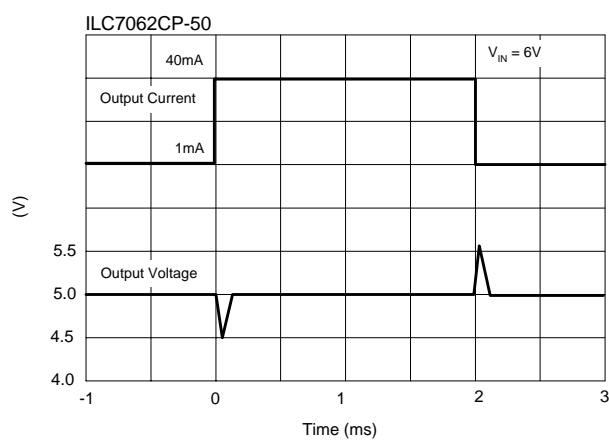
I_{DD} vs T_{opr}



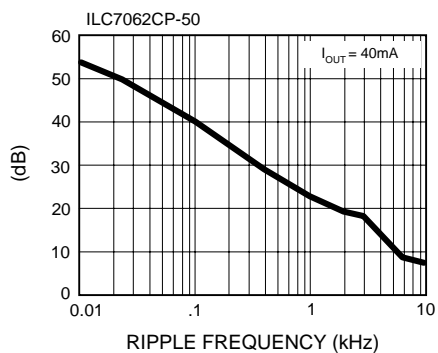
Line Transient Response



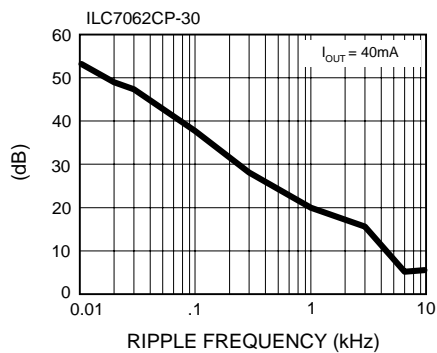
Load Transient Response



Ripple Rejection Rate



Ripple Rejection Rate



Ordering Information	
ILC7062CP-50	5.0V output, SOT-89*
ILC7062CM-50	5.0V output, SOT-23-3**
ILC7062CP-46	4.6V output, SOT-89*
ILC7062CP-33	3.3V output, SOT-89*
ILC7062CP-30	3.0V output, SOT-89*
ILC7062CP-25	2.5V output, SOT-89*
ILC7062CM-25	2.5V output, SOT-23-3**
	*Max power dissipation of 500mW **Max power dissipation of 150mW

*Standard product offering comes in tape & reel, quantity 3000 per reel, orientation right for SOT-23, quantity 1000 per reel, orientation right for SOT-89

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[applications](#)

[New products](#)

[Product selection and](#)

[parametric search](#)

[Cross-reference](#)

[search](#)

ILC7062x42

0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

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[representatives](#)

[Dotted line](#)

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[Dotted line](#)

[Design tools](#)

General description

250mA CMOS LDO in a SOT-23 package, featuring 120mV of dropout voltage at 100mA and 380mV at 200mA current levels.

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[back to top](#)

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[back to top](#)

Applications

- Battery-powered Equipment
- Reference voltage sources
- Palmtops
- Portable cameras and video recorders

[back to top](#)

Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
ILC7062CM42X	Lifetime Buy	\$0.87	SOT-23	3	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

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Memory

Optoelectronics

Markets and

applications

New products

Product selection and

parametric search

Cross-reference

search

ILC7062x30
0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) | [Product status/pricing/packaging](#)

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[back to top](#)

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[back to top](#)

Applications

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[back to top](#)

Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
ILC7062CM30X	Lifetime Buy	\$0.87	SOT-23	3	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

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Logic

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Non-Volatile

Memory

Optoelectronics

Markets and

applications

New products

Product selection and

parametric search

Cross-reference

search

ILC7062x33

0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

Datasheet

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[Dotted line](#)

[Quality and reliability](#)

[Dotted line](#)

[Design tools](#)

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[back to top](#)

Features

technical information

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[back to top](#)

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[back to top](#)

Product status/pricing/packaging

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ILC7062CM33X	Full Production	\$0.87	SOT-23	3	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

[Home](#) | [Find products](#) | [Technical information](#) | [Buy products](#) | [Support](#) | [Company](#) | [Contact us](#) | [Site index](#) | [Privacy policy](#)

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[Interface](#)

[Logic](#)

[Microcontrollers](#)

[Non-Volatile](#)

[Memory](#)

[Optoelectronics](#)

[Markets and applications](#)

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[Product selection and parametric search](#)

[Cross-reference search](#)

technical information

buy products

technical support

my Fairchild

company

ILC7062x25
0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) | [Product status/pricing/packaging](#)

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[back to top](#)

Features

Datasheet

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[back to top](#)

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[back to top](#)

Product status/pricing/packaging

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ILC7062CP25X	Lifetime Buy	\$0.87	N/A	N/A	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

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Logic

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Memory

Optoelectronics

Markets and

applications

New products

Product selection and

parametric search

Cross-reference

search

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0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

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[Dotted line](#)

[Product Change Notices](#)

[\(PCNs\)](#)

[Dotted line](#)

[Support](#)

[Dotted line](#)

[Distributor and field sales](#)

[representatives](#)

[Dotted line](#)

[Quality and reliability](#)

[Dotted line](#)

[Design tools](#)

General description

250mA CMOS LDO in a SOT-23 package, featuring 120mV of dropout voltage at 100mA and 380mV at 200mA current levels.

The part offers ±2% accuracy on outputs, yet draws only 2µA of current. Short-circuit protection is standard.

The part comes in both 3-lead SOT-23 (150mW) and 3-lead SOT-89 (500mW) to handle a variety of voltage and current levels.

Transient response to load variations have improved in comparison to the existing series.

Low Power consumption and high accuracy is achieved through CMOS and laser trimming technologies.

[back to top](#)

Features

technical information

buy products

technical support

my Fairchild

company

- Low Power Consumption: typ 2.0 μ A at $V_{OUT} = 5V$
- All-CMOS design in SOT-23 and SOT-89 packages gives optimal size and power performances.
- Highly accurate output $\pm 2\%$ ($\pm 1\%$)
- Maximum output current: 250mA (Limited to 150mW power dissipation SOT-23, 500mW SOT-89)
- Output Voltage Range: 2.0V to 6.0V

[back to top](#)

Applications

- Battery-powered Equipment
- Reference voltage sources
- Palmtops
- Portable cameras and video recorders

[back to top](#)

Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
ILC7062CM44X	Lifetime Buy	\$0.87	SOT-23	3	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

[Home](#) | [Find products](#) | [Technical information](#) | [Buy products](#) | [Support](#) | [Company](#) | [Contact us](#) | [Site index](#) | [Privacy policy](#)

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SEARCH | Parametric | Cross Reference

space Product Folders and Applies

find products

Home >> Find products >>

Products groups

Analog and Mixed

Signal

Discrete

Interface

Logic

Microcontrollers

Non-Volatile

Memory

Optoelectronics

Markets and

applications

New products

Product selection and

parametric search

Cross-reference

search

ILC7062x46

0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

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[back to top](#)

Features

Datasheet

[Download this](#)

[datasheet](#)

PDF

[e-mail this datasheet](#)

[E-]

This page [Print version](#)

Related Links

[Request samples](#)

[Dotted line](#)

[How to order products](#)

[Dotted line](#)

[Product Change Notices](#)

[\(PCNs\)](#)

[Dotted line](#)

[Support](#)

[Dotted line](#)

[Distributor and field sales](#)

[representatives](#)

[Dotted line](#)

[Quality and reliability](#)

[Dotted line](#)

[Design tools](#)

technical information

buy products

technical support

my Fairchild

company

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[back to top](#)

Applications

- Battery-powered Equipment
- Reference voltage sources
- Palmtops
- Portable cameras and video recorders

[back to top](#)

Product status/pricing/packaging

Product	Product status	Pricing*	Packing method
ILC7062CP46X	Lifetime Buy	\$0.87	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

[Home](#) | [Find products](#) | [Technical information](#) | [Buy products](#) | [Support](#) | [Company](#) | [Contact us](#) | [Site index](#) | [Privacy policy](#)

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SEARCH | [Parametric](#) | [Cross Reference](#)

[Product Folders and](#) [Applies](#)

[find products](#)

[Home >>](#) [Find products >>](#)

[Products groups](#)

[Analog and Mixed](#)

[Signal](#)

[Discrete](#)

[Interface](#)

[Logic](#)

[Microcontrollers](#)

[Non-Volatile](#)

[Memory](#)

[Optoelectronics](#)

[Markets and applications](#)

[New products](#)

[Product selection and parametric search](#)

[Cross-reference search](#)

[technical information](#)

[buy products](#)

[technical support](#)

[my Fairchild](#)

[company](#)

ILC7062x50
0.25A Low Dropout Voltage Regulator

Contents

[General description](#) | [Features](#) | [Applications](#) | [Product status/pricing/packaging](#)

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[back to top](#)

Features

Datasheet

[Download this datasheet](#)



[e-mail this datasheet](#)



This page [Print version](#)

Related Links

[Request samples](#)

[How to order products](#)

[Product Change Notices \(PCNs\)](#)

[Support](#)

[Distributor and field sales representatives](#)

[Quality and reliability](#)

[Design tools](#)

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[back to top](#)

Applications

- Battery-powered Equipment
- Reference voltage sources
- Palmtops
- Portable cameras and video recorders

[back to top](#)

Product status/pricing/packaging

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ILC7062CP50X	Lifetime Buy	\$0.87	TAPE REEL

* 1,000 piece Budgetary Pricing

[back to top](#)

[Home](#) | [Find products](#) | [Technical information](#) | [Buy products](#) | [Support](#) | [Company](#) | [Contact us](#) | [Site index](#) | [Privacy policy](#)

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