



LK115D00 SERIES

VERY LOW DROP WITH INHIBIT VOLTAGE REGULATORS

- VERY LOW DROPOUT VOLTAGE (0.2V TYP.)
- VERY LOW QUIESCENT CURRENT (TYP. 0.01 μ A IN OFF MODE, 280 μ A IN ON MODE)
- OUTPUT CURRENT UP TO 100 mA
- TWO LOGIC-CONTROLLED ELECTRONIC SHUTDOWNS
- OUTPUT VOLTAGES OF 2; 2.5; 3; 3.3; 4; 4.75; 4.85; 5; 5.5V
- INTERNAL CURRENT AND THERMAL LIMIT
- ONLY 2.2 μ F FOR STABILITY
- V_{OUT} TOLLERANCE $\pm 3\%$ AT 25 °C
- SUPPLY VOLTAGE REJECTION: 80 db (TYP.)
- TEMPERATURE RANGE: -40 TO 125 °C

DESCRIPTION

The LK115D00 series are very Low Drop regulators available in SO-8 package and in a wide range of output voltages. The very Low Drop voltage (0.2V) and the very low quiescent current (0.01 μ A in OFF MODE,

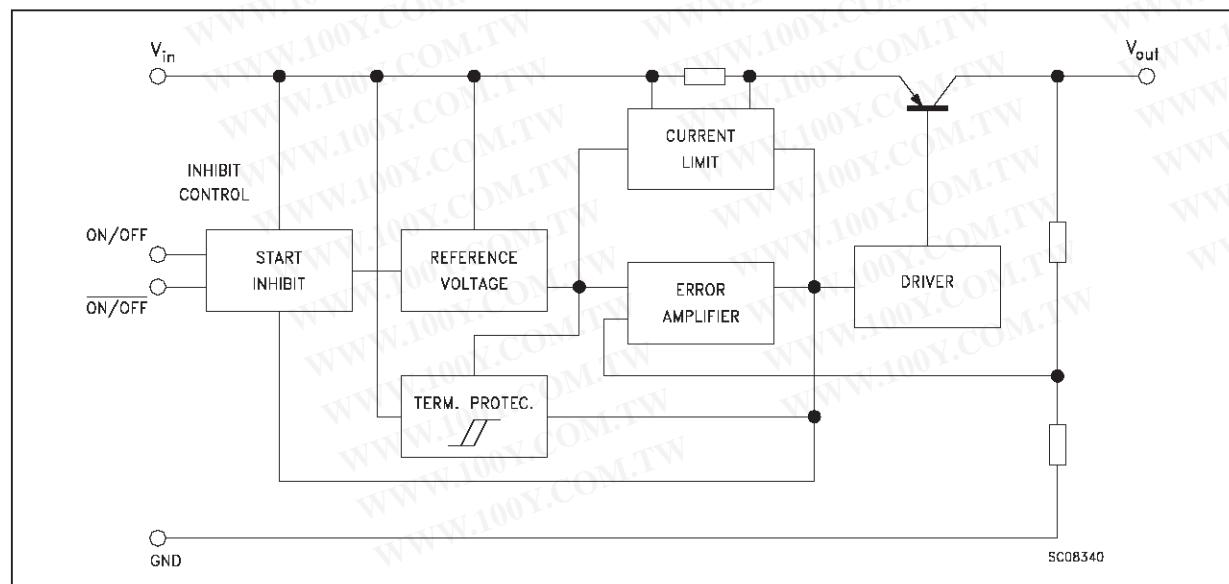


SO-8

280 μ A in ON MODE) make them particularly suitable for Low Noise, Low Power applications and specially in battery powered systems.

Both active HIGH and active LOW shutdown Logic Control are available (pin2 and 3). This means that when the device is used as a local regulator, it is possible to put a part of the board in standby, decreasing the total power consumption. It requires only a 2.2 μ F capacitor for stability allowing space and cost saving.

BLOCK DIAGRAM

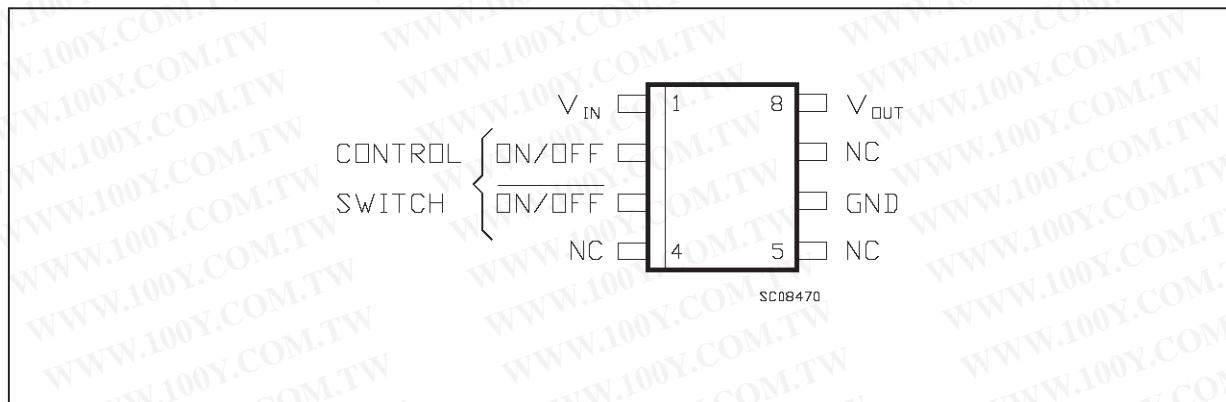


LK115D00 SERIES

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _i	DC Input Voltage	20	V
I _o	Output Current	Internally limited	
P _{tot}	Power Dissipation	Internally limited	
T _{stg}	Storage Temperature Range	- 40 to 150	°C
T _{op}	Operating Junction Temperature Range	- 40 to 125	°C

CONNECTION DIAGRAM (top view)

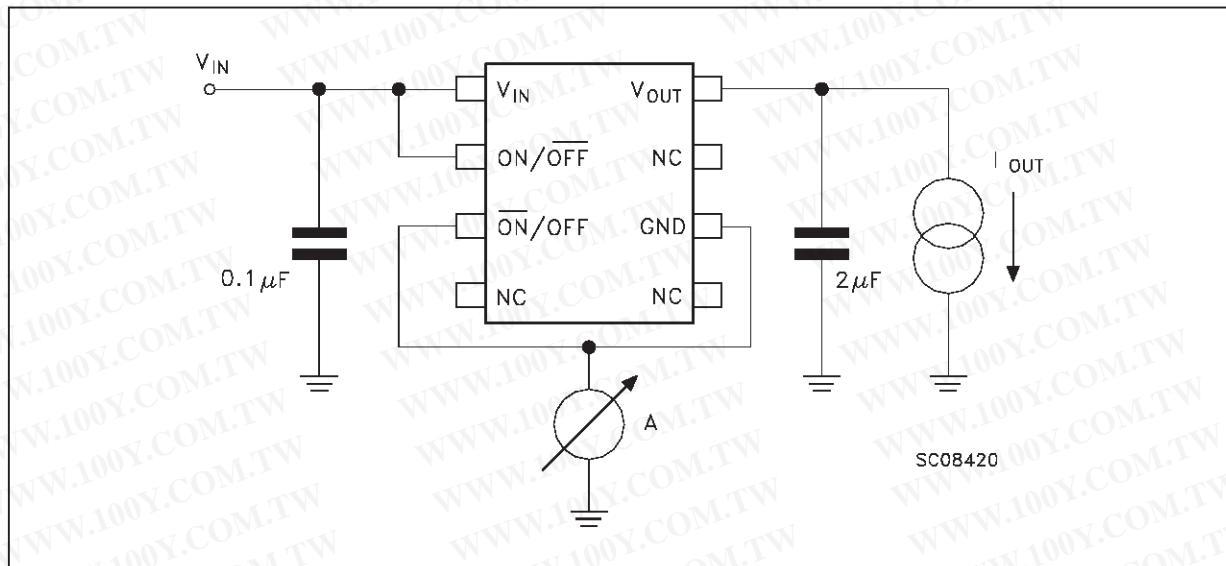


ORDERING NUMBERS

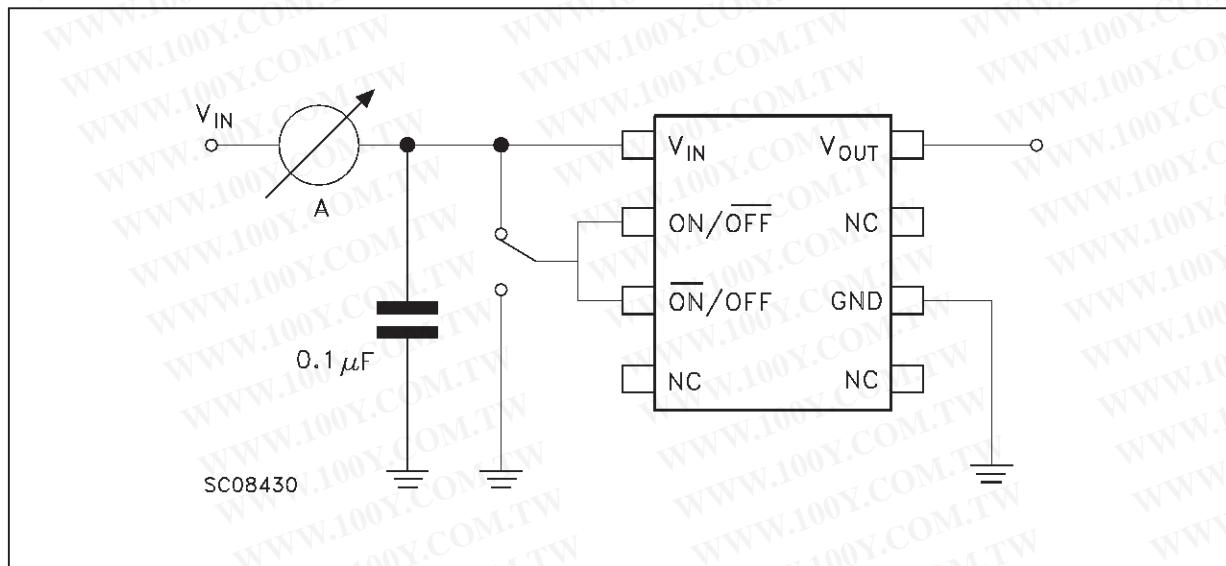
Type	Output Voltage
LK115D20	2 V
LK115D25	2.5 V
LK115D30	3 V
LK115D33	3.3 V
LK115D40	4 V
LK115D47	4.75 V
LK115D48	4.85 V
LK115D50	5 V
LK115D55	5.5 V

(*) Available on request

TEST CIRCUITS: Supply Current (ON MODE)



TEST CIRCUITS: Supply Current (OFF MODE)



NOTE: The switch emulates the two possibilities to set the regulator in OFF mode.

THRUTH TABLE

ON/OFF (PIN 2)	ON/OFF (PIN 3)	STATUS
H	L	ON
H	H	OFF
L	L	OFF
L	H	NOT ALLOWED

NOTES: Logic Levels are those defined in the electrical characteristics

LK115D00 SERIES

ELECTRICAL CHARACTERISTICS FOR LK115D20 (refer to the test circuits, $T_j = 25^\circ\text{C}$, $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 4 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 4 \text{ V}, -40 < T_a < 125^\circ\text{C}$	1.940 1.9	2	2.060 2.1	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 3 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		2	10	mV
ΔV_o	Load Regulation	$V_i = 3 \text{ V} \quad I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 3 \text{ to } 20 \text{ V} \quad I_o = 0 \text{ mA}$ $V_i = 3 \text{ to } 20 \text{ V} \quad I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 3 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} \quad V_i = 4 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		83 78 59		dB dB dB
eN	Output Noise Voltage	$B = 10 \text{ Hz to } 100 \text{ KHz}$		44		μV
V_d	Dropout Voltage	$I_o = 60 \text{ mA}$		0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

ELECTRICAL CHARACTERISTICS FOR LK115D25 (refer to the test circuits, $T_j = 25^\circ\text{C}$, $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 4.5 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 4.5 \text{ V}, -40 < T_a < 125^\circ\text{C}$	2.425 2.375	2.5	2.575 2.625	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 3.5 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		2	10	mV
ΔV_o	Load Regulation	$V_i = 3.5 \text{ V} \quad I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 3.5 \text{ to } 20 \text{ V} \quad I_o = 0 \text{ mA}$ $V_i = 3.5 \text{ to } 20 \text{ V} \quad I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 3.5 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} \quad V_i = 4.5 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		81 76 58		dB dB dB
eN	Output Noise Voltage	$B = 10 \text{ Hz to } 100 \text{ KHz}$		55		μV
V_d	Dropout Voltage	$I_o = 60 \text{ mA}$		0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

ELECTRICAL CHARACTERISTICS FOR LK115D30 (refer to the test circuits, $T_j = 25^\circ\text{C}$,
 $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}$, $V_i = 5 \text{ V}$ $I_o = 10 \text{ mA}$, $V_i = 5 \text{ V}$, $-40 < T_a < 125^\circ\text{C}$	2.910 2.850	3 3.150	3.090 3.150	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 4 \text{ to } 20 \text{ V}$, $I_o = 0.5 \text{ mA}$		2	10	mV
ΔV_o	Load Regulation	$V_i = 4 \text{ V}$ $I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 4 \text{ to } 20 \text{ V}$ $I_o = 0 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 4 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA}$ $V_i = 5 \text{ V} \pm 1\text{V}$		79		dB
		$f = 120 \text{ Hz}$		74		dB
		$f = 1 \text{ KHz}$		57		dB
		$f = 10 \text{ KHz}$				
eN	Output Noise Voltage	B = 10 Hz to 100 KHz		66		μV
V_d	Dropout Voltage	$I_o = 60 \text{ mA}$		0.17		V
V_{HIC}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	ESR = 0.5 to 10 Ω , $I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

ELECTRICAL CHARACTERISTICS FOR LK115D33 (refer to the test circuits, $T_j = 25^\circ\text{C}$,
 $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}$, $V_i = 5.3 \text{ V}$ $I_o = 10 \text{ mA}$, $V_i = 5.3 \text{ V}$, $-40 < T_a < 125^\circ\text{C}$	3.2 3.135	3.3	3.4 3.465	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 4.3 \text{ to } 20 \text{ V}$, $I_o = 0.5 \text{ mA}$		2	10	mV
ΔV_o	Load Regulation	$V_i = 4.3 \text{ V}$ $I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 4.3 \text{ to } 20 \text{ V}$ $I_o = 0 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 4.3 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA}$ $V_i = 5.3 \text{ V} \pm 1\text{V}$		79		dB
		$f = 120 \text{ Hz}$		74		dB
		$f = 1 \text{ KHz}$		57		dB
		$f = 10 \text{ KHz}$				
eN	Output Noise Voltage	B = 10 Hz to 100 KHz		72.6		μV
V_d	Dropout Voltage	$I_o = 60 \text{ mA}$		0.17		V
V_{HIC}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	ESR = 0.5 to 10 Ω , $I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

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ELECTRICAL CHARACTERISTICS FOR LK115D40 (refer to the test circuits, $T_j = 25^\circ\text{C}$, $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 6 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 6 \text{ V}, -40 < T_a < 125^\circ\text{C}$	3.880 3.8	4 4.2	4.120 4.2	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 5 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		3	15	mV
ΔV_o	Load Regulation	$V_i = 5 \text{ V} \quad I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 5 \text{ to } 20 \text{ V} \quad I_o = 0 \text{ mA}$ $V_i = 5 \text{ to } 20 \text{ V} \quad I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 5 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} \quad V_i = 5 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		77 72 56		dB dB dB
		B = 10 Hz to 100 KHz		88		μV
V_d	Dropout Voltage	$I_o = 60 \text{ mA}$		0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

ELECTRICAL CHARACTERISTICS FOR LK115D47 (refer to the test circuits, $T_j = 25^\circ\text{C}$, $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 6.8 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 6.8 \text{ V}, -40 < T_a < 125^\circ\text{C}$	4.607 4.513	4.75	4.892 4.987	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 5.8 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		3	15	mV
ΔV_o	Load Regulation	$V_i = 5.8 \text{ V} \quad I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 5.8 \text{ to } 20 \text{ V} \quad I_o = 0 \text{ mA}$ $V_i = 5.8 \text{ to } 20 \text{ V} \quad I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 5.8 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} \quad V_i = 6.8 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		75 70 55		dB dB dB
		B = 10 Hz to 100 KHz		104.5		μV
V_d	Dropout Voltage	$I_o = 60 \text{ mA}$		0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

ELECTRICAL CHARACTERISTICS FOR LK115D48 (refer to the test circuits, $T_j = 25^\circ\text{C}$,
 $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 6.9 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 6.9 \text{ V}, -40 < T_a < 125^\circ\text{C}$	4.705 4.607	4.85	4.966 5.093	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 5.9 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		3	15	mV
ΔV_o	Load Regulation	$V_i = 5.9 \text{ V} I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 5.9 \text{ to } 20 \text{ V} I_o = 0 \text{ mA}$ $V_i = 5.9 \text{ to } 20 \text{ V} I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 5.9 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} V_i = 6.9 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		75 70 55		dB dB dB
				106.7		μV
				0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

ELECTRICAL CHARACTERISTICS FOR LK115D50 (refer to the test circuits, $T_j = 25^\circ\text{C}$,
 $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 7 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 7 \text{ V}, -40 < T_a < 125^\circ\text{C}$	4.85 4.75	5	5.15 5.25	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 6 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		3	15	mV
ΔV_o	Load Regulation	$V_i = 6 \text{ V} I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 6 \text{ to } 20 \text{ V} I_o = 0 \text{ mA}$ $V_i = 6 \text{ to } 20 \text{ V} I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 6 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} V_i = 7 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		75 70 55		dB dB dB
				110		μV
				0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

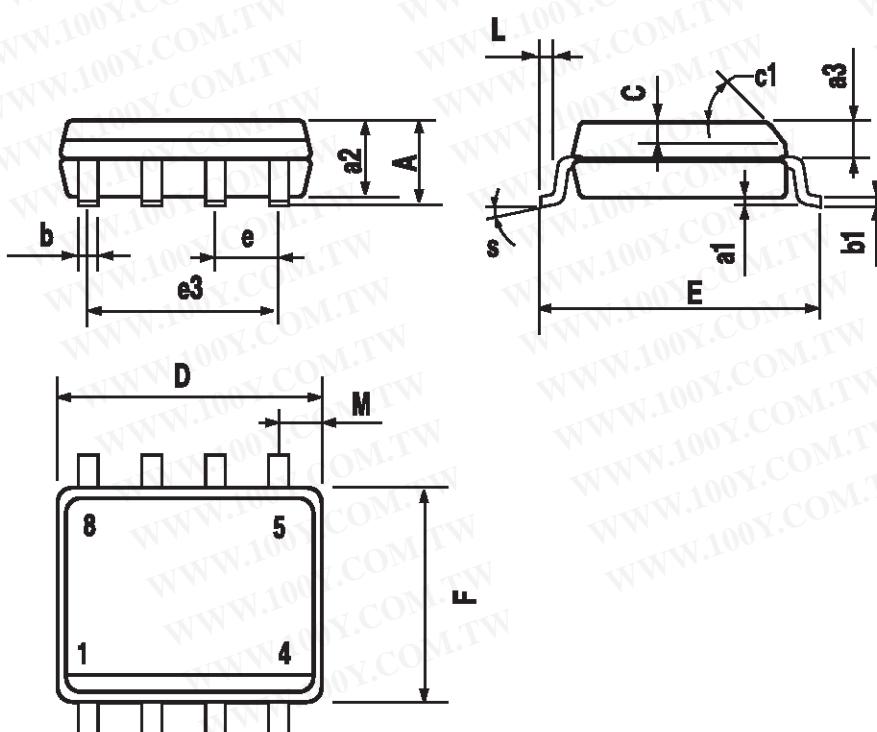
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ELECTRICAL CHARACTERISTICS FOR LK115D55 (refer to the test circuits, $T_j = 25^\circ\text{C}$, $C_i = 0.1 \mu\text{F}$, $C_o = 2.2 \mu\text{F}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_o	Output Voltage	$I_o = 10 \text{ mA}, V_i = 7.5 \text{ V}$ $I_o = 10 \text{ mA}, V_i = 7.5 \text{ V}, -40 < T_a < 125^\circ\text{C}$	5.335 5.225	5.5	5.665 5.775	V V
V_i	Operating Input Voltage	$I_o = 100 \text{ mA}$			20	V
I_{out}	Output Current Limit		120	200		mA
ΔV_o	Line Regulation	$V_i = 6.5 \text{ to } 20 \text{ V}, I_o = 0.5 \text{ mA}$		3	15	mV
ΔV_o	Load Regulation	$V_i = 6.5 \text{ V} I_o = 0.5 \text{ to } 100 \text{ mA}$		4	20	mV
I_d	Quiescent Current	ON MODE $V_i = 6.5 \text{ to } 20 \text{ V} I_o = 0 \text{ mA}$ $V_i = 6.5 \text{ to } 20 \text{ V} I_o = 100 \text{ mA}$		0.28 1.5	0.5 3	mA mA
		OFF MODE $V_i = 6.5 \text{ to } 20 \text{ V}$		0.01	2	μA
SVR	Supply Voltage Rejection	$I_o = 5 \text{ mA} V_i = 7.5 \text{ V} \pm 1\text{V}$ $f = 120 \text{ Hz}$ $f = 1 \text{ KHz}$ $f = 10 \text{ KHz}$		74 69 55		dB dB dB
				121		μV
				0.17		V
V_{Hic}	ON/OFF Control (pin 2)	Pin 3 to GND OFF Pin 3 to GND ON	0 2.4		0.5 V_{in}	V V
V_{LIC}	ON/OFF Control (pin 3)	Pin 2 to V_{in} OFF Pin 2 to V_{in} ON	$V_{in} - 0.2$ 0		$V_{in} - 2.4$ $V_{in} - 2.4$	V V
C_o	Output Bypass Capacitance	$ESR = 0.5 \text{ to } 10 \Omega, I_o = 0 \text{ to } 100 \text{ mA}$	2	10		μF

SO-8 MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A			1.75			0.068
a1	0.1		0.25	0.003		0.009
a2			1.65			0.064
a3	0.65		0.85	0.025		0.033
b	0.35		0.48	0.013		0.018
b1	0.19		0.25	0.007		0.010
C	0.25		0.5	0.010		0.019
c1		45 (typ.)				
D	4.8		5.0	0.188		0.196
E	5.8		6.2	0.228		0.244
e		1.27			0.050	
e3		3.81			0.150	
F	3.8		4.0	0.14		0.157
L	0.4		1.27	0.015		0.050
M			0.6			0.023
S		8 (max.)				



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