


The **LTC[®]1504** is now available in the industrial temperature range (-40°C to 85°C) as indicated in bold. For complete specifications, typical performance characteristics and applications information, please see the **LTC1504** data sheet.

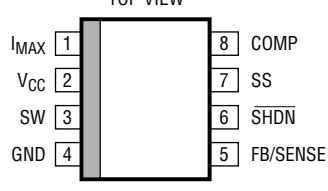
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ABSOLUTE MAXIMUM RATINGS

(Note 1)

Supply Voltage (V_{CC} to GND)	10V
Peak Output Current (SW)	$\pm 1\text{A}$
Input Voltage (All Other Pins)	-0.3V to $V_{CC} + 0.3\text{V}$
Operating Temperature Range	
LTC1504C	0°C to 70°C
LTC1504I	-40°C to 85°C
Storage Temperature Range	-65°C to 150°C
Lead Temperature (Soldering, 10 sec)	300°C

PACKAGE/ORDER INFORMATION

<p>TOP VIEW</p>  <p>S8 PACKAGE 8-LEAD PLASTIC SO</p> <p>*FB FOR LTC1504CS8, SENSE FOR LTC1504CS8-3.3</p> <p>$T_{JMAX} = 115^{\circ}\text{C}$, $\theta_{JA} = 90^{\circ}\text{C/W}$</p>	ORDER PART NUMBER	
	LTC1504CS8	
	LTC1504CS8-3.3	
	LTC1504IS8	
	LTC1504IS8-3.3	
	S8 PART MARKING	
	1504 1504I	
	15043 1504I3	

Consult factory for Military grade parts.

ELECTRICAL CHARACTERISTICS $V_{CC} = 5\text{V}$, $-40^{\circ}\text{C} \leq T_A \leq 85^{\circ}\text{C}$ unless otherwise specified. (Note 1)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
V_{FB}	Feedback Voltage	LTC1504IS8	1.23	1.265	1.29	V
ΔV_{FB}	Feedback Voltage PSRR	Figure 1, $4\text{V} \leq V_{CC} \leq 10\text{V}$, LTC1504IS8		1.1	1.8	%
ΔV_{SENSE}	SENSE Pin Voltage PSRR	Figure 1, $4\text{V} \leq V_{CC} \leq 10\text{V}$, LTC1504IS8-3.3		1.2	2.0	%
f_{OSC}	Internal Oscillator Frequency		130	200	300	kHz
R_{SW}	Internal Switch Resistance			1.3	2.2	Ω
g_{mV}	Error Amplifier Transconductance	(Note 2)	300	650	1200	μmho
I_{MAX}	I_{MAX} Sink Current	$V_{IMAX} = V_{CC}$	8	12	17	μA
I_{SS}	Soft Start Source Current	$V_{SS} = 0\text{V}$	-8	-12	-17	μA
DC_{MAX}	Maximum Duty Cycle	$V_{COMP} = V_{CC}$	83	90		%

Note 1: All currents into device are positive; all currents out of device are negative. All voltages are referenced to ground unless otherwise specified.

Note 2: Fixed output devices will appear to have g_{mV} and A_V values 2.6 times lower than the specified values, due to the internal divider resistors.

For further information regarding this specification notice contact:

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