



## Product Overview

### LV8044LP: 6-Channel Motor Driver for Digital Still Camera

For complete documentation, see the data sheet

#### Product Description

The LV8044LP is a 6-channel motor driver IC for digital still camera.

Features	Benefits
<ul style="list-style-type: none"> <li>64step Micro-step Drive</li> <li>Built-in Photo Sensor Drive Transistor</li> <li>Stand-by Current: 0μA</li> <li>Built-in TSD circuit</li> <li>Low Output ON- Resistance : 1.4ohm(Io=0.4A)</li> <li>Two microstep drive H-bridge driver channels.</li> <li>Two microstep drive/PWM saturated drive switchable H-bridge driver channels.</li> <li>Two constant-current drive H-bridge driver channels.</li> <li>Drive mode switchable between 2-phase, 1-2 phase full torque, 1-2 phase, and 4W1-2 phase (channels 1, 2, 3, and 4).</li> <li>Microstep drive step advance controlled by a single step signal input (channels 1, 2, 3, and 4).</li> </ul>	<ul style="list-style-type: none"> <li>Reduction of motor noise/vibration</li> <li>Less External Component</li> <li>Low consumption</li> <li>Thermal protection</li> <li>High efficiency</li> </ul>

Applications	End Products
<ul style="list-style-type: none"> <li>Industrial</li> <li>Power Supply</li> <li>Portable &amp; Wireless</li> <li>Portable &amp; Wireless</li> </ul>	<ul style="list-style-type: none"> <li>Digital still camera</li> <li>Li-Ion Battery Charger</li> <li>Digital Still Camera</li> <li>PoE Security Camera</li> <li>Network Camera</li> </ul>

#### Part Electrical Specifications

Product	Compliance	Status	Type	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Step Reso lution	Cont rol Type	Feed back Method	Curr ent Sense	Reg ulator Outp ut	Fault Dete ction	Flyb ack Protectio n	R <sub>DS(on)</sub> Typ (Ω)	Pack age Type
LV8044LP-MPB-E	Pb-free	Active	Step per/ Brus h DC	2.7	5.5	2.7	5.5	0.4	0.6	1 1/1 6 1/2	Seria l		Exter nal Resi stor		Over- Cur rent The rma l UV LO		1.2	VQL P-40
LV8044LP-TLM-E	Pb-free	Active	Step per/ Brus h DC	2.7	5.5	2.7	5.5	0.4	0.6	1 1/1 6 1/2	Seria l		Exter nal Resi stor		Over- Cur rent The rma l UV LO		1.2	VQL P-40

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