



Product Overview

LV8112VB: 3-phase Brushless Motor Driver for Polygon Mirror Motor

For complete documentation, see the data sheet

Product Description

The LV8112VB is a 3-phase brushless motor driver for polygon mirror motor driving of LBP. A circuit needed to drive of polygon mirror motor can be composed of a single-chip. Also, the output transistor is made DMOS by using BiDC process, and by adopting the synchronous rectification method, the lower power consumption (Heat generation) is achieved.

Features	Benefits
<ul style="list-style-type: none"> Direct PWM drive + synchronous rectification PLL speed control circuit Current limiter, constraint protection, thermal shutdown, under-voltage protection circuit 3-phase bipolar drive IO max1 = 2.5A IO max2 = 3.0A (t is within 0.1ms) Output current control circuit Phase lock detection output (with mask function) Circuit to switch slowing down method while stopped (Free run or Short-circuit brake) Constraint protection detection signal switching circuit (FG or LD) 	<ul style="list-style-type: none"> Low consumption High efficiency and Low jitter Safety design

Applications	End Products
<ul style="list-style-type: none"> Polygon Mirror motor 	<ul style="list-style-type: none"> Laser beam printer (LBP) Plain paper copier (PPC) Multi function printer (MFP)

Part Electrical Specifications

Product	Compliance	Status	Type	V _M Min (V)	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	I _O Max (A)	I _O Peak Max (A)	Step Resolution	Control Type	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	R _{DS(on)} Typ (Ω)	Package Type
LV8112VB-AH	Pb-free Halide free	Active	Brushless DC	10	37	10	37		3		Clock		External Resistor	Yes	Lock Over-Current Thermal UV LO		1.5	SSOP-44K EP

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