



## Product Overview

### LB11921T: 3-Phase Brushless Motor Driver

For complete documentation, see the data sheet

#### Product Description

LB11921T is a pre-driver IC designed for variable speed control of 3-phase brushless motors. It can be used to implement a motor drive circuit with the desired output capacity (voltage, current) by using discrete transistors for the output stage. It implements direct PWM drive for minimal power loss. Because the LB11921T includes an integrated VCO circuit, applications can control the motor speed arbitrarily by varying the external clock frequency.

#### Features

- Direct PWM drive output
- Speed discriminator + PLL speed control circuit
- Speed lock detection output
- Integrated VCO circuit
- Forward/reverse switching circuit
- Braking circuit (short braking)
- Full complement of on-chip protection circuits, including lock protection, current limiter, and thermal shutdown protection circuits.

#### Applications

- Computing & Peripherals
- OA equipment

#### End Products

- Multi-Function Printer
- PC

#### 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 Resolution	Control Type	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	Package Type
LB11921T-MPB-E	Pb-free	Active	Brushless DC			4.4	8	0.01			Clock		External Resistor		Lock Over-Current Thermal UV LO		TSS OP-36
LB11921T-TLM-E	Pb-free	Active	Brushless DC			4.4	8	0.01			Clock		External Resistor		Lock Over-Current Thermal UV LO		TSS OP-36

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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