

製品概要

AMIS-30621: Microstepping Motor Driver and Controller with LIN Bus

技術情報は、データシートをご参照ください。



The AMIS-30621 is a single chip microstepping motor driver with position controller and control diagnostic interface. It is ready to build dedicated mechatronics solutions connected remotely with a LIN master. The chip receives positioning instructions through the bus and subsequently drives the motor coils to the desired position. The on chip position controller is configurable (OTP or RAM) for different motor types, positioning ranges and parameters for speed, acceleration and deceleration. The AMIS-30621 acts as a slave on the LIN bus and the master can fetch specific status information like actual position, error flags, etc. from each individual slave node. The chip is implemented in I2T100 technology, enabling both high voltage analog circuitry and digital functionality on the same chip. The AMIS-30621 is fully compatible with the automotive voltage requirements.

特長

- Automatic selection of fast and slow decay mode.
- No external flyback diodes required.
- Configurable speeds and acceleration.
- Field programmable node addresses.
- Dynamically allocated identifiers.
- Both physical and data-link layers (conform to LIN rev. 1.3).
- LIN bus short circuit protection to supply and ground.
- High temp warning and management.
- Lost LIN safe operation.
- Micro-stepping technology.

For more features, see the data sheet

アプリケーション

- Automotive applications like headlamp alignment, HVAC, idle control and cruise control.
- Industrial equipment like lighting, fluid control, labeling, process control, XYZ tables, robots...
- Building automation like HVAC, surveillance, satellite dish and renewable energy systems.
- In general the device is ideally suited for small positioning applications which typically have multiple axes or require mechatronic solutions with the driver chip mounted directly on the motor.

電氣的仕様

製品	Pricing (\$/Unit)	Compliance	Status	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	Current Sense	Fault Detection	Package Type
AMIS30621C6213G		AEC Qualified PPAP Capable Pb-free Halide free	Active	6	40	4.75	5.25	0.8	0.8	1/16	LIN	Fully Integrated	UVLO	SOIC-8 NB
AMIS30621C6213RG		AEC Qualified PPAP Capable Pb-free Halide free	Active	6	40	4.75	5.25	0.8	0.8	1/16	LIN	Fully Integrated	Over-Current	SOIC-8 NB
AMIS30621C6216G		AEC Qualified PPAP Capable Pb-free Halide free	Active	6	40	4.75	5.25	0.8	0.8	1/16	LIN	Fully Integrated	Open Coil	NQFP-32
AMIS30621C6216RG		AEC Qualified PPAP Capable Pb-free Halide free	Active	6	40	4.75	5.25	0.8	0.8	1/16	LIN	Fully Integrated	Open Coil	NQFP-32
AMIS30621C6217G	4.2731	AEC Qualified PPAP Capable Pb-free Halide free	Active	6	40	4.75	5.25	0.8	0.8	1/16	LIN	Fully Integrated	UVLO	SOIC-8 NB
AMIS30621C6217RG	4.2731	AEC Qualified PPAP Capable Pb-free Halide free	Active	6	40	4.75	5.25	0.8	0.8	1/16	LIN	Fully Integrated	Over-Current	SOIC-8 NB

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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