TCA3727G

Data Sheet

Motor / Motion / Ignition Controllers & Drivers BODY BRIDGES Motor Driver

Images are for reference only

Manufacturers	Infineon Technologies Corporation
Package/Case	SOP-24
Product Type	Power Management ICs
RoHS	
Lifecycle	

Please submit RFQ for TCA3727G or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

TCA3727G is a bipolar, monolithic IC for driving bipolar stepper motors, DC motors and other inductive loads that operate on constant current. The control logic and power output stages for two bipolar windings are integrated on a single chip which permits switched current control of motors with 0.75 A per phase at operating voltages up to 50 V. The direction and value of current are programmed for each phase via separate control inputs. A common oscillator generates the timing for the current control and turn-on with phase offset of the two output stages. The two output stages in a full-bridge configuration have integrated, fast free-wheeling diodes and are free of crossover current. The logic is supplied either separately with 5 V or taken from the motor supply voltage by way of a series resistor and an integrated Z-diode. The device can be driven directly by a microprocessor with the possibility of all modes from full step through half step to mini step.

Features

2 × 0.75 amp. / 50 V outputs

Integrated driver, control logic and current control (chopper)

Fast free-wheeling diodes

Max. supply voltage 52 V

Outputs free of crossover current

Offset-phase turn-ON of output stages

Z-diode for logic supply

Low standby-current drain

Full, half, quarter, mini step

Green (RoHS compliant) thermally enhanced SO package

AEC Qualified

Wide supply voltage range allows usage in different markets (e.g. industry)

Application

Stepper Motor in industry applications (e.g. cooling)

Related Products

[TCA3727](#)

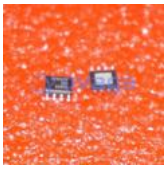
Infineon Technologies Corporation

P-DIP-20-6

[TCA785](#)

Infineon Technologies Corporation

DIP-16



[IFX91041EJV](#)

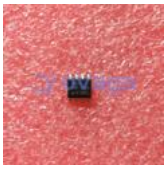
Infineon Technologies Corporation

SOP8

[IRS2101SPBF](#)

Infineon Technologies Corporation

SOIC-8



[IRS2003STRPBF](#)

Infineon Technologies Corporation

SOIC-8

[IRS21864SPBF](#)

Infineon Technologies Corporation

SOIC-14

[IR3897MTRPBF](#)

Infineon Technologies Corporation

PQFN 4 x 5

[IR3898MTRPBF](#)

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