

Product Overview

LB8503V: DC Fan Motor Speed Controller

For complete documentation, see the data sheet.

The LB8503V is an improved functionality version of the LB8500 and LB8502 products that features the added functions listed below. The LB8503V supports both single-phase and three-phase applications.

Features

- Achieves linear speed control
- Minimized speed fluctuations in the presence of line or load variations
- Allows a minimum speed to be set
- Soft start function
- Settings using external capacitors and resistors (to support easier mass production of end products)
- Supports both PWM duty and analog voltage control inputs
- [Added Function] : Supports origin shifting in the control function
- [Added Function] : Adds a dedicated pin for setting the soft time. This allows a longer start time to be set without reducing the response time when changing speed.
- [Added Function] : FG output pin added

Part Electrical Specifications

Product	Compliance	Status	Phase	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)	Control Type	Package Type
LB8503V-TLM-E	Pb-free	Active	1/2/3	7.5	17	6.5	5.5	0.0025	0.003	DC	SSOP-16
LB8503V-W-AH	Pb-free Halide free	Active	1/2/3	7.5	17	6.5	5.5	0.0025	0.003	DC	SSOP-16

For more information please contact your local sales support at www.onsemi.com.

Created on: 1/24/2019