



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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All-In-One Single-coil Fan drivers

Since 2000 **MELEXIS**
has been **INNOVATING**
in the fan market
offering **QUALITATIVE**
and **COST EFFECTIVE**
fandriver



"With the expansion of its single coil fandrider family Melexis continues to offer its advance design capabilities in hall sensing and motor control to the benefit of the fandrider market."

INNOVATION

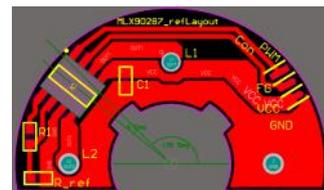
- Soft start and soft switching for low acoustic noise
- Integrated reverse polarity protection, avoids the need for protection diode, and allows smaller decoupling capacitor
- All-In-One single coil fandrider with PWM control in straight leads SOIC8 package
- Wettable flanks QFN package allows assembly using standard optical inspection (no XRAY required)

QUALITY

- AECQ-100 compliant
- 100% production tested at two temperatures
- Qualified to automotive standard including Automotive PPAP
- State of the art protection against ESD and EOS

COST

- Single layer pcb, even half size pcb possible.
- Low BOM cost: Minimum discrete components
 - Integrated high sensitive hall sensor,
 - Integrated reverse polarity protection diode.
- One IC fits all:
 - Configurable speed curve
 - High drive strength up to 600mA
 - Standardized pcb / stator design, from 40mm to 120mm fans



Layout example :
Half size single layer pcb



Picture :

Melexis straight leads PWM Single coil fandrider on a single layer pcb **(on the left)**.
Compared to a **TSSOP16 competitor** with external straight leads SOT hall element **(on the right)**.

Target Applications



CPU/VGA/PSU



Game consoles



White goods



Automotive: LED headlamp, Battery cooling, VGA

Quick Reference	MLX90287	MLX90297
Minimum speed	Configurable	Configurable
Speed curve	Fixed	Configurable
Average Fan current	< 450 mA	< 600 mA
Current limiting	No	Yes
Soft start	Yes	Yes
Soft switching	Yes	Yes
Reverse polarity	Built-in	External diode
Supply voltage	[4.5, 18]	[3.3, 18]
ESD—HBM	6kV	9kV

Order code (*)	Grade	Package	FG/RD	Current Limit
MLX90287KZC-AAA000-RX	Industrial/Consumer	ZC: Straight leads SOIC8	FG	n/a
MLX90287LZC-AAA000-RX	Automotive	ZC: Straight leads SOIC8	FG	n/a
MLX90287LLD-AAA000-RX	Automotive	DFN10 3*3mm	FG	n/a
MLX90297KZC-AAA008-RX	Industrial/Consumer	ZC: Straight leads SOIC8	FG	Yes
MLX90297KZC-ABA008-RX	Industrial/Consumer	ZC: Straight leads SOIC8	RD	Yes
MLX90297KLD-AAA009-RX	Industrial/Consumer	DFN10 3*3mm	FG	Yes

(*) More order code options available. Please contact your sales representative for more information.



We Engineer The Sustainable Future



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- Motor control
- LIN communication
- Pressure Sensors
- Wireless ICs
- Hall Effect ICs And Sensors
- Optoelectronic Sensors
- Sensor Interface ICs
- Infrared Sensors