

Würth Elektronik eiSos GmbH & Co. KG

EMC & Inductive Solutions

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Product / Process Change Notification (PCN)

- Major change
 Minor change

PCN #: PCN_LDHM_20210630

Affected Series: WE-LDHM; 172946001

PCN Date: March 30, 2021

Effective Date: June 30, 2021

Change Category:

- Equipment / Location
 General Data
 Material
 Process
 Product Design
 Shipping / Packaging
 Supplier
 Software

Contact: Product Management

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Data Sheet Change:

Yes No

Attachment:

Yes No

DESCRIPTION AND PURPOSE OF CHANGE:

In the continuous process of offering more value to our customers, Würth Elektronik has enlarged the technical content of the MagI³C power module 172946001 (TO263-7EP 4.5-60VIN / 300-450mA / Up to 16 high power 3.2V LEDs) datasheet significantly.

Update datasheet revision to 2.0.

In addition some electrical specifications are provided in a more precise way (see below).

There will be no change in form, fit, quality or reliability of the product.

DETAIL OF CHANGE:

Information that has been changed in the datasheet:

ELECTRICAL SPECIFICATIONS

- Removed redundant explanation of pins and their function – no change in values (page 5)
- Symbol of 'LED current', 'Short circuit output current' & 'LED-pin leakage current' changed – no change in values (page 5)

No further amendments in the electrical specifications have been done.

ABSOLUTE MAXIMUM RATINGS

- T_{storage} , non-operating storage temperature has been changed from 0 to -65°C (page 4)

No further amendments in the absolute maximum ratings have been done.

Additional information has been included / changed in the datasheet:

- Change of headline with clear parameters (300 - 450mA) (page 1)
- Change of headline with amount of usable LEDs (page 1)
- Changed typical applications to be closer to the lighting market (page 1)

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- Clarified features: Adjustable LED current from 300 to 450mA (page 1)
- Clarified features: Up to 16 high power LEDs (page 1)
- Changed maximum output power to 23W (page 1)
- Pin Descriptions: Improved descriptions of the pins (page 2)
- Design Flow Layout Section: Note added about land pattern and stencil design (page 15)
- PWM Dimming: correct value of 244Hz inserted (page 21-22)
- PWM Dimming: DIM and ISET pin Wording in schematic corrected (page 23)
- Updated recommended footprint design (Page 29)
- Added recommended stencil design (Page 29)
- Added recommended thermal vias placement (Page 30)
- Updated cautions and warnings (Page 33)
- Updated disclaimer (Page 34)
- Updated important notes (Page 35)

RELIABILITY / QUALIFICATION SUMMARY:

Product specification approval, according to internal requirements, has been released by the Quality Department and the Product Management Department.