

Product Change Notice (PCN)

Subject: Datasheet Specification Change for the Intersil ISL8273M* Product

Publication Date: 6/28/2017

Effective Date: 9/26/2017

Revision Description:

Initial Release

Description of Change:

Product List

ISL8273MAIRZ
ISL8273MAIRZ-T

This notice is to inform you that Intersil has updated the datasheet specification for the ISL8273M* products. The update includes changes to the following : -

1. The RoHS EU exemption status on the datasheet.
2. Table 1. ISL8273M DESIGN GUIDE MATRIX AND OUTPUT VOLTAGE RESPONSE, where the ASCR Gain specification has changed from 140 to 100 db.
3. Correction to the POD (Package Outline Drawing) referenced in the datasheet. The updates to the POD correct the exposed pad dimension (bottom view). Below summarizes the dimension change : -

From :	To :
8.40mm (2x)	8.30mm (2x)
8.00mm (2x)	1.00mm (2x)

Reason for Change:

The change updates the datasheet to reflect the design guide matrix and output voltage response and EU exemption status associated with the materials / components used. Details regarding the change are contained in Appendix A. The updated datasheet is available on the Intersil web site at:

<http://www.intersil.com/content/dam/intersil/documents/isl8/isl8273m.pdf>

Impact on fit, form, function, quality & reliability:

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the devices.

Product Identification:

Product affected by this change is identifiable via Intersil's internal traceability system.

Qualification status: Not Applicable
Sample availability: 6/28/2017
Device material declaration: Available upon request

Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Intersil within 30 days of the publication date.

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: PCN-US@INTERSIL.COM	Europe: PCN-EU@INTERSIL.COM	Japan: PCN-JP@INTERSIL.COM	Asia Pac: PCN-APAC@INTERSIL.COM

Appendix A – PCN17023 Data Sheet Electrical Specification Updates

RoHS EU exemption status

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<p>NOTES:</p> <ol style="list-style-type: none">1. These Intersil Pb-free plastic packaged products employ special Pb-free material sets; molding compounds/die attach materials and NiPdAu plate-e4 termination finish, which is RoHS compliant and compatible with both SnPb and Pb-free soldering operations. Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J STD-020.2. For Moisture Sensitivity Level (MSL), please see device information page for ISL8273M. For more information on MSL, please see tech brief TB363.
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<p>NOTES:</p> <ol style="list-style-type: none">1. Add "-T" suffix for 100 unit Tape and Reel options. Please refer to TB347 for details on reel specifications.2. These Intersil Pb-free plastic packaged products are RoHS compliant by EU exemption 7C-I and 7A. They employ special Pb-free material sets; molding compounds/die attach materials and NiPdAu plate-e4 termination finish, which is compatible with both SnPb and Pb-free soldering operations. Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J-STD-020.3. For Moisture Sensitivity Level (MSL), please see device information page for ISL8273M. For more information on MSL, please see tech brief TB363.
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Appendix A – PCN17023 Data Sheet Electrical Specification Updates

ISL8273M DESIGN GUIDE MATRIX AND OUTPUT VOLTAGE RESPONSE

From (page 9 of 55) :

TABLE 1. ISL8273M DESIGN GUIDE MATRIX AND OUTPUT VOLTAGE RESPONSE

V _{IN} (V)	V _{OUT} (V)	C _{IN} (BULK) (μF) (Note 7)	C _{IN} (CERAMIC) (μF)	C _{OUT} (BULK) (μF)	C _{OUT} (CERAMIC) (μF)	ASCR GAIN (Note 8)	ASCR RESIDUAL (Note 8)	V _{OUT} DEVIATION (mV)	RECOVERY TIME (μs)	LOAD STEP (A) (Note 9)	FREQ. (kHz)
5	1	1x470	6x47	6x470	12x100	140	90	80	25	0 to 40	300
5	1	1x470	4x47	4x470	8x100	220	90	95	20	0 to 40	571
5	1.5	1x470	6x47	6x470	14x100	110	90	82	35	0 to 40	300
5	1.5	1x470	4x47	4x470	10x100	240	90	85	20	0 to 40	571
12	1	1x470	8x47	6x470	14x100	140	90	80	30	0 to 40	300
12	1	1x470	6x47	4x470	10x100	240	90	82	20	0 to 40	571
12	1.5	1x470	8x47	6x470	12x100	140	90	85	35	0 to 40	364
12	1.5	1x470	6x47	4x470	10x100	220	90	85	30	0 to 40	571
12	2.5	1x470	8x47	4x470	8x100	180	90	105	45	0 to 40	571
12	2.5	1x470	6x47	3x470	6x100	220	90	110	40	0 to 40	800

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TABLE 1. ISL8273M DESIGN GUIDE MATRIX AND OUTPUT VOLTAGE RESPONSE

V _{IN} (V)	V _{OUT} (V)	C _{IN} (BULK) (μF) (Note 8)	C _{IN} (CERAMIC) (μF)	C _{OUT} (BULK) (μF)	C _{OUT} (CERAMIC) (μF)	ASCR GAIN (Note 9)	ASCR RESIDUAL (Note 9)	V _{OUT} DEVIATION (mV)	RECOVERY TIME (μs)	LOAD STEP (A) (Note 10)	FREQ. (kHz)
5	1	1x470	6x47	6x470	12x100	100	90	80	25	0 to 40	300
5	1	1x470	4x47	4x470	8x100	220	90	95	20	0 to 40	571
5	1.5	1x470	6x47	6x470	14x100	110	90	82	35	0 to 40	300
5	1.5	1x470	4x47	4x470	10x100	240	90	85	20	0 to 40	571
12	1	1x470	8x47	6x470	14x100	140	90	80	30	0 to 40	300
12	1	1x470	6x47	4x470	10x100	240	90	82	20	0 to 40	571
12	1.5	1x470	8x47	6x470	12x100	140	90	85	35	0 to 40	364
12	1.5	1x470	6x47	4x470	10x100	220	90	85	30	0 to 40	571
12	2.5	1x470	8x47	4x470	8x100	180	90	105	45	0 to 40	571
12	2.5	1x470	6x47	3x470	6x100	220	90	110	40	0 to 40	800

Appendix A – PCN17023 Data Sheet Electrical Specification Updates

SIZE DETAILS FOR THE 16 EXPOSED PADS

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