

Product Advisory (PA)

Subject: Correction to the Renesas ISL71218M Datasheets

Publication Date: 1/19/2021

Effective Date: 1/19/2021

Revision Description:

Initial Release

Description of Change:

This notice is to inform you of datasheet corrections as below;

1. Updated Absolute Max Ratings, Maximum Supply Voltage under beam. Changed from 36V to 40V. (Pg. 4, Section 2.1)
2. Updated label in title of Table 4. Changed from VS=20V to VS= $\pm 20V$. (Pg. 26, Table 4)

Corrections are reflected in Appendix A of the notice.

Products Impacted by the change;

Renesas Part Number	Ordering Number
ISL71218MBZ	N/A
ISL71218MBZ-T	N/A
ISL71218MBZ-T7A	N/A
ISL71218MEVAL1Z	N/A

Reason for Change:

Change corrects the datasheet to reflect the actual product performance. Details regarding the change are contained within Appendix A, for an updated datasheet please contact your local sales or marketing representative.

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:

There have been no changes to the product, this is a documentation correction only. There will be no change in the external marking of the packaged products.

Qualification status: Not Applicable, correction only

Sample availability: 1/19/2021

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@Renesas.COM	Europe: PCN-EU@Renesas.COM	Japan: PCN-JP@Renesas.COM	Asia Pac: PCN-APAC@Renesas.COM

Appendix A:

- Updated Absolute Max Ratings, Maximum Supply Voltage under beam. Changed from 36V to 40V. (Pg. 4, Section 2.1)

FROM:

2. Specifications

2.1 Absolute Maximum Ratings

Parameter	Minimum	Maximum	Unit
Maximum Supply Voltage		42	V
Maximum Supply Voltage (Note 4)		36	V
Maximum Differential Input Current		20	mA
Maximum Differential Input Voltage	$V^- - 0.5$	$V^+ + 0.5$	V
Minimum/Maximum Input Voltage	$V^- - 0.5$	$V^+ + 0.5$	V
Minimum/Maximum Input Current		± 20	mA
Output Short-Circuit Duration (1 output at a time)		Indefinite	
ESD Rating	Value		Unit
Human Body Model (Tested per JS-001-2014)	5.5		kV
Machine Model (Tested per JESD22-A115-C)	300		V
Charged Device Model (Tested per JS-002-2014)	2		kV
Latch-Up (Tested per JESD78E; Class 2, Level A)	100 at +125°C		mA

TO:

2. Specifications

2.1 Absolute Maximum Ratings

Parameter	Minimum	Maximum	Unit
Maximum Supply Voltage		42	V
Maximum Supply Voltage (Note 4)		40	V
Maximum Differential Input Current		20	mA
Maximum Differential Input Voltage	$V^- - 0.5$	$V^+ + 0.5$	V
Minimum/Maximum Input Voltage	$V^- - 0.5$	$V^+ + 0.5$	V
Minimum/Maximum Input Current		± 20	mA
Output Short-Circuit Duration (1 output at a time)		Indefinite	
ESD Rating	Value		Unit
Human Body Model (Tested per JS-001-2014)	5.5		kV
Machine Model (Tested per JESD22-A115-C)	300		V
Charged Device Model (Tested per JS-002-2014)	2		kV
Latch-Up (Tested per JESD78E; Class 2, Level A)	100 at +125°C		mA

2. Updated label in title of Table 4. Changed from $V_S=20V$ to $V_S= \pm 20V$. (Pg. 26, Table 4)

FROM:
Table 4. ISL71218M SEB/L Results ($V_S = 20V$, LET = 43MeV•cm²/mg)

Unit	Temp (°C)	Supply Current Pre-Exposure		Supply Current Post-Exposure		SEB/L
		I+ (mA)	I- (mA)	I+ (mA)	I- (mA)	
1	+125°C	2.833	2.796	2.840	2.799	Pass
2	+125°C	3.036	2.998	3.042	3.001	Pass
3	+125°C	3.057	2.580	3.062	2.579	Pass
4	+125°C	2.888	2.410	2.892	2.413	Pass

TO:
Table 4. ISL71218M SEB/L Results ($V_S = \pm 20V$, LET = 43MeV•cm²/mg)

Unit	Temp (°C)	Supply Current Pre-Exposure		Supply Current Post-Exposure		SEB/L
		I+ (mA)	I- (mA)	I+ (mA)	I- (mA)	
1	+125°C	2.833	2.796	2.840	2.799	Pass
2	+125°C	3.036	2.998	3.042	3.001	Pass
3	+125°C	3.057	2.580	3.062	2.579	Pass
4	+125°C	2.888	2.410	2.892	2.413	Pass