

## Product Advisor (PA)

**Subject:** Datasheet specification change for listed Renesas ICL3221E\*, ICL3222E\*, ICL3223E\*, ICL3232E\*, ICL3241E\*, ICL3243E\* and ISL83386E\* Products

**Publication Date:** 9/26/2018

**Effective Date:** 9/26/2018

**Revision Description:**

Initial Release

**Description of Change:**

This notice is to inform you that Renesas Electronics America Inc has corrected the datasheets absolute maximum rating for  $R_{IN}$  from +25V to +28V for the ICL3221E\*, ICL3222E\*, ICL3223E\*, ICL3232E\*, ICL3241E\*, ICL3243E\* and ISL83386E\* products listed in Appendix A.

**Reason for Change:**

The correction to the datasheet aligns the documentation with the product characteristics. Details regarding the change are contained in Appendix B and C.

**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 Renesas's internal traceability system.

**Qualification status:** Not Applicable

**Sample availability:** 9/26/2018

**Device material declaration:** Available upon request

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

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: <a href="mailto:PCN-US@RENESAS.COM">PCN-US@RENESAS.COM</a>	Europe: <a href="mailto:PCN-EU@RENESAS.COM">PCN-EU@RENESAS.COM</a>	Japan: <a href="mailto:PCN-JP@RENESAS.COM">PCN-JP@RENESAS.COM</a>	Asia Pac: <a href="mailto:PCN-APAC@RENESAS.COM">PCN-APAC@RENESAS.COM</a>

## Appendix A :

**Affected Product List**

ICL3221ECAZ	ICL3222EIVZ-T	ICL3232ECV-16Z-T	ICL3241EIVZ-T
ICL3221ECAZ-T	ICL3222EIVZ-TS2490	ICL3232ECV-16Z-T7A	ICL3243ECAZ
ICL3221ECAZ-T7A	ICL3223ECAZ	ICL3232EIAZ	ICL3243ECAZ-T
ICL3221ECVZ	ICL3223ECAZ-T	ICL3232EIAZ-T	ICL3243ECAZ-TS2568
ICL3221ECVZ-T	ICL3223ECAZ-TS2490	ICL3232EIBNZ	ICL3243ECBZ
ICL3221EIAZ	ICL3223EIAZ	ICL3232EIBNZ-T	ICL3243ECBZ-T
ICL3221EIAZ-T	ICL3223EIAZ-T	ICL3232EIBZ	ICL3243ECVZ
ICL3221EIAZ-T7A	ICL3223EIVZ	ICL3232EIBZ-T	ICL3243ECVZ-T
ICL3221EIVZ	ICL3223EIVZ-T	ICL3232EIV-16Z	ICL3243EIAZ
ICL3221EIVZ-T	ICL3223EIVZ-T7A	ICL3232EIV-16Z-T	ICL3243EIAZ-T
ICL3221EIVZ-T7A	ICL3232ECAZ	ICL3232EIV-16Z-T7A	ICL3243EIVZ
ICL3222ECAZ	ICL3232ECAZ-T	ICL3232EIV-20Z	ICL3243EIVZ-T
ICL3222ECAZ-T	ICL3232ECAZ-T7A	ICL3232EIV-20ZT	ICL3243EIVZ-T7A
ICL3222ECVZ	ICL3232ECBNZ	ICL3241ECAZ	ISL83386EIVZ
ICL3222ECVZ-T	ICL3232ECBNZ-T	ICL3241ECAZ-T	ISL83386EIVZ-T
ICL3222EIAZ	ICL3232ECBNZ-T7A	ICL3241ECVZ	
ICL3222EIAZ-T	ICL3232ECBZ	ICL3241ECVZ-T	
ICL3222EIBZ	ICL3232ECBZ-T	ICL3241EIAZ	
ICL3222EIBZ-T	ICL3232ECBZ-TS2705	ICL3241EIAZ-T	
ICL3222EIVZ	ICL3232ECV-16Z	ICL3241EIVZ	

Appendix B – ICL322xE\*, ICL323xE\* and ICL324xE\* Datasheet comparison (Existing vs New)

Existing Datasheet (page 12 of 33) : Absolute Maximum Ratings of R<sub>IN</sub>

<b>Absolute Maximum Ratings</b>	
V <sub>CC</sub> to GND	-0.3V to 6V
V+ to GND	-0.3V to 7V
V- to GND	+0.3V to -7V
V+ to V-	14V
Input Voltages	
T <sub>IN</sub> , $\overline{\text{FORCEOFF}}$ , FORCEON, $\overline{\text{EN}}$ , $\overline{\text{SHDN}}$	-0.3V to 6V
R <sub>IN</sub>	±25V
Output Voltages	
T <sub>OUT</sub>	±13.2V
R <sub>OUT</sub> , $\overline{\text{INVALID}}$	-0.3V to V <sub>CC</sub> +0.3V
Short Circuit Duration	
T <sub>OUT</sub>	Continuous
ESD Rating	See Specification Table

New Datasheet (page 12 of 33) : Absolute Maximum Ratings of R<sub>IN</sub>

<b>Absolute Maximum Ratings</b>	
V <sub>CC</sub> to GND	-0.3V to 6V
V+ to GND	-0.3V to 7V
V- to GND	+0.3V to -7V
V+ to V-	14V
Input Voltages	
T <sub>IN</sub> , $\overline{\text{FORCEOFF}}$ , FORCEON, $\overline{\text{EN}}$ , $\overline{\text{SHDN}}$	-0.3V to 6V
R <sub>IN</sub>	±28V
Output Voltages	
T <sub>OUT</sub>	±13.2V
R <sub>OUT</sub> , $\overline{\text{INVALID}}$	-0.3V to V <sub>CC</sub> +0.3V
Short Circuit Duration	
T <sub>OUT</sub>	Continuous
ESD Rating	See <a href="#">"Electrical Specifications" on page 12</a>

Appendix C – ISL83386E\* Datasheet comparison (Existing vs New)

Existing Datasheet (page 4 of 10) : Absolute Maximum Ratings of R<sub>IN</sub>

Absolute Maximum Ratings	
V <sub>CC</sub> to Ground	-0.3V to 6V
V <sub>L</sub> to Ground	-0.3V to 7V
V+ to Ground	-0.3V to 7V
V- to Ground	+0.3V to -7V
V+ to V-	14V
Input Voltages	
T <sub>IN</sub> , SHDN	-0.3V to 6V
R <sub>IN</sub>	±25V
Output Voltages	
T <sub>OUT</sub>	±13.2V
R <sub>OUT</sub>	-0.3V to (V <sub>L</sub> +0.3V)
Short Circuit Duration	
T <sub>OUT</sub>	Continuous
ESD Rating	See Specification Table

New Datasheet (page 4 of 12) : Absolute Maximum Ratings of R<sub>IN</sub>

Absolute Maximum Ratings	
V <sub>CC</sub> to Ground	-0.3V to 6V
V <sub>L</sub> to Ground	-0.3V to 7V
V+ to Ground	-0.3V to 7V
V- to Ground	+0.3V to -7V
V+ to V-	14V
Input Voltages	
T <sub>IN</sub> , SHDN	-0.3V to 6V
R <sub>IN</sub>	±28V
Output Voltages	
T <sub>OUT</sub>	±13.2V
R <sub>OUT</sub>	-0.3V to (V <sub>L</sub> +0.3V)
Short Circuit Duration	
T <sub>OUT</sub>	Continuous
ESD Rating	See <a href="#">"ESD PERFORMANCE" on page 5</a>



**Report Name:** Product List  
**Notice Number:** PA18022  
**Effective Date:** September 25, 2018  
**Begin Date:** September 25, 2016  
**End Date:** September 25, 2018

**Product List**

ICL3221ECAZ  
ICL3221ECAZ-T  
ICL3221ECAZ-T7A  
ICL3221ECVZ  
ICL3221ECVZ-T  
ICL3221EIAZ  
ICL3221EIAZ-T  
ICL3221EIAZ-T7A  
ICL3221EIVZ  
ICL3221EIVZ-T  
ICL3221EIVZ-T7A  
ICL3222ECAZ  
ICL3222ECAZ-T  
ICL3222ECVZ  
ICL3222ECVZ-T  
ICL3222EIAZ  
ICL3222EIAZ-T  
ICL3222EIBZ  
ICL3222EIBZ-T  
ICL3222EIVZ  
ICL3222EIVZ-T  
ICL3222EIVZ-TS2490  
ICL3223ECAZ  
ICL3223ECAZ-T  
ICL3223ECAZ-TS2490  
ICL3223EIAZ  
ICL3223EIAZ-T  
ICL3223EIVZ  
ICL3223EIVZ-T  
ICL3223EIVZ-T7A  
ICL3232ECAZ  
ICL3232ECAZ-T  
ICL3232ECAZ-T7A  
ICL3232ECBNZ  
ICL3232ECBNZ-T  
ICL3232ECBNZ-T7A  
ICL3232ECBZ  
ICL3232ECBZ-T

**Product List**

ICL3232ECBZ-TS2705  
ICL3232ECV-16Z  
ICL3232ECV-16Z-T  
ICL3232ECV-16Z-T7A  
ICL3232EIAZ  
ICL3232EIAZ-T  
ICL3232EIBNZ  
ICL3232EIBNZ-T  
ICL3232EIBZ  
ICL3232EIBZ-T  
ICL3232EIV-16Z  
ICL3232EIV-16Z-T  
ICL3232EIV-16Z-T7A  
ICL3232EIV-20Z  
ICL3232EIV-20ZT  
ICL3241ECAZ  
ICL3241ECAZ-T  
ICL3241ECVZ  
ICL3241ECVZ-T  
ICL3241EIAZ  
ICL3241EIAZ-T  
ICL3241EIVZ  
ICL3241EIVZ-T  
ICL3243ECAZ  
ICL3243ECAZ-T  
ICL3243ECAZ-TS2568  
ICL3243ECBZ  
ICL3243ECBZ-T  
ICL3243ECVZ  
ICL3243ECVZ-T  
ICL3243EIAZ  
ICL3243EIAZ-T  
ICL3243EIVZ  
ICL3243EIVZ-T  
ICL3243EIVZ-T7A  
ISL83386EIVZ  
ISL83386EIVZ-T