

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

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_{IN}

Absolute Maximum Ratings	
V_{CC} 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_{IN} , $\overline{FORCEOFF}$, $\overline{FORCEON}$, $\overline{EN}$, $\overline{SHDN}$	-0.3V to 6V
R_{IN}	$\pm 25V$
Output Voltages	
T_{OUT}	$\pm 13.2V$
R_{OUT} , $\overline{INVALID}$	-0.3V to $V_{CC} + 0.3V$
Short Circuit Duration	
T_{OUT}	Continuous
ESD Rating	See Specification Table

New Datasheet (page 12 of 33) : Absolute Maximum Ratings of R_{IN}

Absolute Maximum Ratings	
V_{CC} 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_{IN} , $\overline{FORCEOFF}$, $\overline{FORCEON}$, $\overline{EN}$, $\overline{SHDN}$	-0.3V to 6V
R_{IN}	$\pm 28V$
Output Voltages	
T_{OUT}	$\pm 13.2V$
R_{OUT} , $\overline{INVALID}$	-0.3V to $V_{CC} + 0.3V$
Short Circuit Duration	
T_{OUT}	Continuous
ESD Rating	See "Electrical Specifications" on page 12

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

Existing Datasheet (page 4 of 10) : Absolute Maximum Ratings of R_{IN}

Absolute Maximum Ratings	
V _{CC} to Ground	-0.3V to 6V
V _L 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 _{IN} , SHDN	-0.3V to 6V
R _{IN}	±25V
Output Voltages	
T _{OUT}	±13.2V
R _{OUT}	-0.3V to (V _L +0.3V)
Short Circuit Duration	
T _{OUT}	Continuous
ESD Rating	See Specification Table

New Datasheet (page 4 of 12) : Absolute Maximum Ratings of R_{IN}

Absolute Maximum Ratings	
V _{CC} to Ground	-0.3V to 6V
V _L 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 _{IN} , SHDN	-0.3V to 6V
R _{IN}	±28V
Output Voltages	
T _{OUT}	±13.2V
R _{OUT}	-0.3V to (V _L +0.3V)
Short Circuit Duration	
T _{OUT}	Continuous
ESD Rating	See "ESD PERFORMANCE" on page 5