Product Advisor (PA)

Subject: Datasheet Correction for Listed Intersil ISL55012IEZ-T7 and ISL55014IEZ-T7* Products
Publication Date: 7/19/2017
Effective Date: 7/19/2017

Revision Description:
Initial Release

Description of Change:
The datasheet for the listed ISL55012* and ISL55014* products has been updated to correct the Theta Ja value from 200 °C/W to 255 °C/W and include the correct package outline drawing (POD) as shown in appendix A.
Product List :
ISL55014IEZ-T7 ISL55012IEZ-T7 ISL55012IEZ-T7S2771

Reason for Change:
This is a correction to the contents of the datasheet, there have not been any changes to the product or materials used in the manufacture of the product.

Impact on fit, form, function, quality & reliability:
There is no impact on the form, fit, function, quality, reliability and environmental compliance of the devices.

Product Identification:
This is a change to the information shown in the datasheet, no physical changes to the product.

Qualification status: Not Applicable
Sample availability: 7/19/2017
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 – Datasheet changes

From:

ISL55012

Absolute Maximum Ratings (T_A = +25°C)

Supply Voltage from VSP to GND 6V
Input Voltage . . . . . V_S+ +0.3V to GND -0.3V
Ambient Operating Temperature . . . . . -40°C to +85°C
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C
ESD Rating
Human Body Model (Per MIL-STD-883 Method 3015.7) . . . 6000V
Machine Model (Per EIAJ ED-4701 Method C-111). 300V
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C

Thermal Information

Thermal Resistance (Typical, Note 1) θ_{JA} (°C/W)
6 Ld SC-70 200
Pb-free reflow profile . . . . . .see link below
http://www.intersil.com/pbfree/Pb-FreeReflow.asp

ISL55014

Absolute Maximum Ratings (T_A = +25°C)

Supply Voltage from VSP to GND 6V
Input Voltage . . . . . V_S+ +0.3V to GND -0.3V
Ambient Operating Temperature . . . . . -40°C to +85°C
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C
ESD Rating
Human Body Model (Per MIL-STD-883 Method 3015.7) . . . 6000V
Machine Model (Per EIAJ ED-4701 Method C-111). 300V

Thermal Information

Thermal Resistance (Typical) θ_{JA} (°C/W)
6 Ld SC-70 200

To:

ISL55012

Absolute Maximum Ratings (T_A = +25°C)

Supply Voltage from V_{SP} to GND 6V
Input Voltage . . . . . V_S+ +0.3V to GND -0.3V
ESD Rating
Human Body Model (Per MIL-STD-883 Method 3015.7) 6000V
Machine Model (Per EIAJ ED-4701 Method C-111) 300V
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C

Thermal Information

Thermal Resistance (Typical) θ_{JA} (°C/W) θ_{JC} (°C/W)
6 Ld SC-70 (Notes 4, 5) 255 195
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C
Pb-Free Reflow Profile . . . . . see TB493

Recommended Operating Conditions

Ambient Operating Temperature . . . . . -40°C to +85°C

ISL55014

Absolute Maximum Ratings (T_A = +25°C)

Supply Voltage from V_{SP} to GND 6V
Input Voltage . . . . . V_S+ +0.3V to GND -0.3V
ESD Rating
Human Body Model (Per MIL-STD-883 Method 3015.7) 6000V
Machine Model (Per EIAJ ED-4701 Method C-111) 300V
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C

Thermal Information

Thermal Resistance (Typical) θ_{JA} (°C/W) θ_{JC} (°C/W)
6 Ld SC-70 (Notes 4, 5) 255 195
Storage Temperature . . . . . -65°C to +125°C
Operating Junction Temperature . . . . . +135°C
Pb-Free Reflow Profile . . . . . see TB493

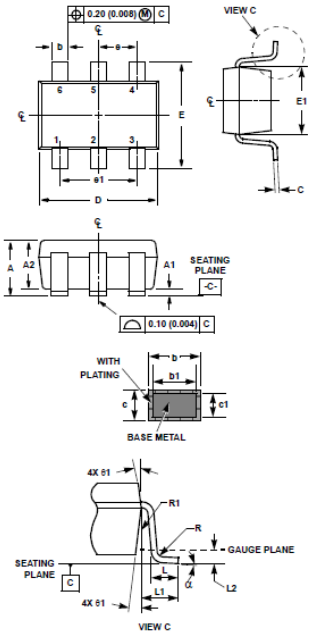
Recommended Operating Conditions

Ambient Operating Temperature . . . . . -40°C to +85°C

From:

ISL55012IEZ* and ISL55014IEZ*

Small Outline Transistor Plastic Packages (SC70-6)



P6.049A

6 LEAD SMALL OUTLINE TRANSISTOR PLASTIC PACKAGE

SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	0.031	0.039	0.80	1.00	-
A1	0.001	0.004	0.025	0.10	-
A2	0.034	0.036	0.85	0.90	-
b	0.006	0.012	0.15	0.30	-
b1	0.006	0.010	0.15	0.25	-
c	0.004	0.008	0.10	0.20	6
c1	0.004	0.006	0.10	0.15	6
D	0.073	0.085	1.85	2.15	3
E	0.084 BSC		2.1 BSC		-
E1	0.045	0.053	1.15	1.35	3
e	0.0256 Ref		0.65 Ref		-
e1	0.0512 Ref		1.30 Ref		-
L	0.010	0.018	0.26	0.46	4
L1	0.016 Ref.		0.400 Ref.		-
L2	0.006 BSC		0.15 BSC		-
N	6		6		5
R	0.004	-	0.10	-	-
α	0°	8°	0°	8°	-

Rev. 0 7/05

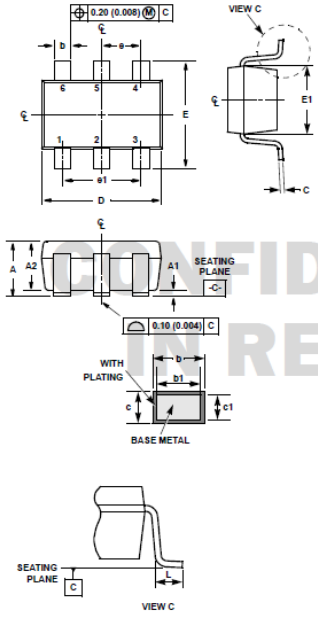
NOTES:

1. Dimensioning and tolerance per ASME Y14.5M-1994.
2. Package conforms to EIAJ SC70 and JEDEC MO203AB.
3. Dimensions D and E1 are exclusive of mold flash, protrusions, or gate burrs.
4. Footlength L measured at reference to gauge plane.
5. "N" is the number of terminal positions.
6. These Dimensions apply to the flat section of the lead between 0.08mm and 0.15mm from the lead tip.
7. Controlling dimension: MILLIMETER. Converted inch dimensions are for reference only

To:

ISL55012IEZ* and ISL55014IEZ*

Small Outline Transistor Plastic Packages (SC70-6)



P6.049B

6 LEAD SMALL OUTLINE TRANSISTOR PLASTIC PACKAGE

SYMBOL	MILLIMETERS		NOTES
	MIN	MAX	
A	0.80	1.00	-
A1	0.000	0.09	-
A2	0.80	0.91	-
b	0.15	0.30	-
b1	0.15	0.25	-
c	0.08	0.25	6
c1	0.10	0.15	6
D	1.85	2.25	3
E	2.30 BSC		-
E1	1.15	1.35	3
e	0.65 Ref		-
e1	1.30 Ref		-
L	0.21	0.44	4
N	6		5

Rev. 0 4/07

NOTES:

1. Dimensioning and tolerance per ASME Y14.5M-1994.
2. Package conforms to EIAJ SC70 and JEDEC MO203AB.
3. Dimensions D and E1 are exclusive of mold flash, protrusions, or gate burrs.
4. Footlength L measured at reference to gauge plane.
5. "N" is the number of terminal positions.
6. These Dimensions apply to the flat section of the lead between 0.08mm and 0.15mm from the lead tip.