

# **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, guality, 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<sub>A</sub> = +25°C)

Supply Voltage from VSP to GND     6V       Input Voltage     VS+ +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     -135°C
Human Body Model (Per MIL-STD-883 Method 3015.7)6000V Machine Model (Per EIAJ ED-4701 Method C-111)

Thermal Information	
Thermal Resistance (Typical, Note 1)	θ <sub>JA</sub> (°C/W)
6 Ld SC-70	200
Pb-free reflow profile	ee link below
http://www.intersil.com/pbfree/Pb-FreeReflow.asp	

### ISL55014

### Absolute Maximum Ratings (T<sub>A</sub> = +25°C)

Supply Voltage from VSP to GND	
Input Voltage	Vs+ +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)6000∨
Machine Model (Per EIAJ ED-4701 Met	hod C-111)

### To:

### Thermal Resistance (Typical) 6 Ld SC-70.....

**Thermal Information** 



# ISL55012

### Absolute Maximum Ratings (T<sub>A</sub> = +25°C)

Supply Voltage from VSP to GND 6V	
Input Voltage	
ESD Rating	
Human Body Model (Per MIL-STD-883 Method 3015.7)6000V	
Machine Model (Per EIAJ ED-4701 Method C-111)	

Storage Temperature	55°C to +125°C
Operating Junction Temperature	+135°C

### **Thermal Information**

Thermal Resistance (Typical)	θ <sub>JA</sub> (°C∕W)	θ <mark>JC</mark> (°C/W)
6 Ld SC-70 ( <u>Notes 4</u> , <u>5</u> )	255	195
Storage Temperature	6	5°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 $(T_A = +25^{\circ}C)$

Supply Voltage from V <sub>SP</sub> to GND 6V	
Input Voltage	
ESD Rating	

### **Thermal Information**

Thermal Resistance (Typical)	$\theta_{JA}$ (°C/W)	θ <sub>JC</sub> (°C/W)
6 Ld SC-70 ( <u>Notes 4</u> , <u>5</u> )	255	195
Storage Temperature	6	5°C to +125°C
Operating Junction Temperature		+135°C
Pb-Free Reflow Profile		see <u>TB493</u>

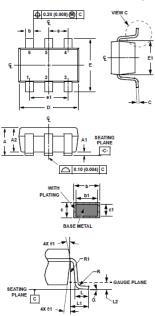
### **Recommended Operating Conditions**

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### From:

### ISL55012IEZ\* and ISL55014IEZ\*

Small Outline Transistor Plastic Packages (SC70-6)



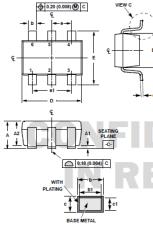
VIEW C

	INC	HES	MILLIN	IETERS	
SYMBOL	MIN	MAX	MIN	MAX	NOTES
Α	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	0.025	6 Ref	0.68	Ref	-
e1	0.051	2 Ref	1.30	) Ref	-
L	0.010	0.018	0.26	0.46	4
L1	0.010	8 Ref.	0.40	0 Ref.	-
L2	0.006	BSC	0.15	BSC	-
N	(	8		6	5
R	0.004	•	0.10	•	-
α	00	80	00	80	•

vev. u //bs
vev. u //bs
1. Dimensioning and tolerance per ASME Y14.5M-1994.
2. Package conforms to EIAJ SC/T0 and JEDE CM0203AB.
3. Dimensions D and E1 are exclusive of mold flash, protrusions, or gate burns.
4. Footbength L measured at reference to gauge plane.
5. Th' is the number of terminal positions.
6. These Dimensions apply to the flat section of the lead between D 0.5mm and 0.15mm from the lead tp.
7. Controlling dimension: MLLIMETER. Converted inch dimensions are for reference only

### To:

# ISL55012IEZ\* and ISL55014IEZ\* Small Outline Transistor Plastic Packages (SC70-6)



	MILLIMETERS		
SYMBOL	MIN	MAX	NOTES
Α	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
DTES:			Rev. 0

Parkage contomits to EIA/ SL7/4 and SLDEC ML20XAB.
Dimensions D and E1 are exclusive of mois flash, protrusions, or gate burns.
Footiengh L measured at reference to gauge plane.
Th's the number of terminal positions.
These Dimensions apply to the flat section of the lead between U.8mm multi the lead by.



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