ON Semiconductor®

Final Product/Process Change Notification

Document # : FPCN21770X
Issue Date: 16 June 2017

Title of Change:	Copper wire conversion for LB1939T and LB1940T
Proposed first ship date:	25 September 2017
Contact information:	Contact your local ON Semiconductor Sales Office or < Tsutomu.Shimazaki@onsemi.com > < Takashi.Harashima@onsemi.com>< Takeshi2.Hoshino@onsemi.com>< Kazumi.Onda@onsemi.com> < Shinya.Okada@onsemi.com>< Yoshiyuki.Nunokawa@onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office or <Tsutomu.Shimazaki@onsemi.com>
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Satoru.Fujinuma@onsemi.com>
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>.
Change Part Identification:	Affected products will be identified with date code.
Change category:	☐ Wafer Fab Change ☒ Assembly Change ☐ Test Change ☐ Other _____

Change Sub-Category(s):

☐ Manufacturing Site Change/Addition
☐ Manufacturing Process Change
☒ Material Change
☐ Product specific change
☐ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:

☐ All site(s) ☐ not applicable ☒ ON Semiconductor site(s) : ON Tarlac City, Philippines ☐ External Foundry/Subcon site(s)

Description and Purpose:

This FPCN is being issued to announce the change on the following:

LB1939T-TLM-E Material to be changed	**Before Change** **Description**	**After Change** **Description**
Wire	Gold wire	Copper wire
Lead frame	Cu Alloy : C50710	Cu Alloy : C19400
Mold resin	Non Halogen-free	Halogen-free

LB1940T-TLM-H Material to be changed	**Before Change** **Description**	**After Change** **Description**
Wire	Gold wire	Copper wire
Lead frame	Cu Alloy : C50710	Cu Alloy : C19400

There is no change of the electrical characteristic specifications with this changing.

Reliability Data Summary:

QV DEVICE NAME : LB1940T
PACKAGE **:** TSSOP-20

Test	Specification	Condition	Interval	Results
HTOL	EIAJ ED-4701/100	Tj=Tjmax, Vcc=Operatingmax	1000 hrs	0/22
THB*	EIAJ ED-4701/100	85°C, 85% RH, Vcc=recommended	1000 hrs	0/22
TC*	EIAJ ED-4701/100	Ta= -65°C to +150°C	100 cyc	0/22
AC*	EIAJ ED-4701-3	Ta=121°C ,RH=100% ,205kPa	50 hrs	0/22
HTSL	EIAJ ED-4701/200	Ta= 150°C	1000 hrs	0/22
RSH	EIAJ ED-4701/300	Ta = 255°C , 10 sec (peak 260°C)	2times	0/22

Notes:
The test items with * mark are put into operation after the reflow soldering (at 255°C for 10seconds)

Electrical Characteristic Summary:

There is no change in the electrical performance. Datasheet specifications remain unchanged.

List of affected Standard Parts:

Part Number	Qualification Vehicle
LB1939T-TLM-E	LB1940T
LB1940T-TLM-H	LB1940T