

Final Product/Process Change Notification Document #: FPCN21770X Issue Date: 16 June 2017

	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></tsutomu.shimazaki@onsemi.com>			
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <satoru.fujinuma@onsemi.com></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>.</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			
☐ Manufacturing Site Change/Addition ☑ Material Change ☐ Manufacturing Process Change ☐ Product specific change Sites Affected: ☐ All site(s) ☐ not applicable ☑ ON Semiconductor site(s): ○ ON Tarlac City, Philippines		Shipping/Packaging/Marking Other:		
		External Foundry/Subcon site(s)		
All site(s) not a		External Foundry/Subcon site(s)		
All site(s) not a	ON Tarlac City, Philippines	External Foundry/Subcon site(s) After Change		
Description and Purpose: This FPCN is being issued to annotation.	ON Tarlac City, Philippines Dunce the change on the following:			
Description and Purpose: This FPCN is being issued to annotation. LB1939T-TLM-E	ON Tarlac City, Philippines Dunce the change on the following: Before Change	After Change		
Description and Purpose: This FPCN is being issued to annotate to the company of	ON Tarlac City, Philippines Dunce the change on the following: Before Change Description	After Change Description		
Description and Purpose: This FPCN is being issued to annotate to the second of the se	ON Tarlac City, Philippines Dunce the change on the following: Before Change Description Gold wire	After Change Description Copper wire		
All site(s) not a Description and Purpose: This FPCN is being issued to annotate LB1939T-TLM-E Material to be changed Wire Lead frame Mold resin	ON Tarlac City, Philippines Dunce the change on the following: Before Change Description Gold wire Cu Alloy: C50710 Non Halogen-free	After Change Description Copper wire Cu Alloy: C19400 Halogen-free		
All site(s) not a Description and Purpose: This FPCN is being issued to annot a LB1939T-TLM-E Material to be changed Wire Lead frame	ON Tarlac City, Philippines Dunce the change on the following: Before Change Description Gold wire Cu Alloy: C50710	After Change Description Copper wire Cu Alloy: C19400		
All site(s) not a Description and Purpose: This FPCN is being issued to annotate LB1939T-TLM-E Material to be changed Wire Lead frame Mold resin LB1940T-TLM-H	ON Tarlac City, Philippines Dunce the change on the following: Before Change Description Gold wire Cu Alloy: C50710 Non Halogen-free Before Change	After Change Description Copper wire Cu Alloy: C19400 Halogen-free After Change		

TEM001092 Rev. M Page 1 of 2



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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 сус	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

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	

TEM001092 Rev. M Page 2 of 2