

Title of Cha	le of Change: Announcement of several changes to the CPH3105-TL-E product. Addition of passivation with changes to to pad design and top metal. Qualification of copper wire with changes to the lead frame and mold compound			-		
Proposed f	irst ship date:	19 July 2017				
Contact inf	ormation:	Contact your local ON Semiconductor Sales Office or < <u>Yasunari.Noguchi@onsemi.com></u>				
Samples:		Contact your local ON Semiconductor Sales Office				
Additional	Reliability Data:	Contact your local ON Semiconductor Sales Office or < <u>Yasuhiro.lgarashi@onsemi.com</u> >.				
Type of no	tification:	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 Pa	rt Identification:	Affected products will be identified with date code.				
Change category: 🛛 Wafer Fab Change 🖾 Assembly Change 🗖 Test Change 🗍 Other				r		
Change Sub-Category(s): Manufacturing Site Change/Addition Material Change Manufacturing Process Change Manufacturing Process Change Manufacturing Process Change Other: 						
	Sites Affected: All site(s) not applicable ON Semiconductor site(s) : External Foundry/Subcon site(s) ON Niigata, Japan ON Shenzhen, China					
-	n and Purpose: Il Process Change Not	ification to announce the follow	ing change.			
item		Before Change	After Change	Reason		
	Pattern layout	Existing pad design	To change the position of bonding pads To add separated probe pads	Quality improvement		
Die	Top metal	3.2um	5.5um	For copper wire		
	Passivation	None	SiN+ Polyimide	Quality improvement		
Wire		Gold	Copper	Stable supply		
Mold compound Lead frame		Halide	Halide Free	Environmental response		
		Large flag Wide post	Small flag Narrow post	Stable supply Quality improvement		



Reliability Data Summary:

QV DEVICE NAME: <u>CPH3105-TL-E</u> PACKAGE: CPH3

FACKAGE.	CEIIJ

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=175°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
тс	JESD22-A104	Ta= -55°C to +150°C	1000 сус	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
AC	JSTD020 JESD-A102	Tj=121°C, RH=100%, Pressure=15psig	96 hrs	0/231

РС	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	0/90

Electrical Characteristic Summary:

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

List of Affected Standard Parts:

Part Number	Qualification Vehicle
CPH3105-TL-E	CPH3105-TL-E