



Final Product/Process Change Notification

Document #:FPCN25222X

Issue Date:03 Mar 2023

Title of Change:	Alternate die source for HCPL062Nx and HCPL063xx
Proposed First Ship date:	08 Jun 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Esther.Lau@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Additional Reliability Data:	Contact your local onsemi Sales Office or ChangKit.Mok@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. onsemi 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
Marking of Parts/ Traceability of Change:	Datecode
Change Category:	Alternate die qualification
Change Sub-Category(s):	Material Change

Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
None	None

Description and Purpose:		
1. To introduce an alternate die source. All the affected part numbers are listed in this PCN.		
Change table summary:		
Item	Current	After Change
1	LED Die: Die from Supplier A, in Japan Die size: 0.24 x 0.24mm	LED Die: Die from Supplier A, in Japan Die size: 0.24 x 0.24mm or LED Die: Die from Supplier B, in Korea Die size: 0.25 x 0.25mm
2	MPN Label: Diffused in: JP	MPN Label: Diffused in: JP Or MPN Label: Diffused in: KR



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Reason for change:

The qualification of the alternate die source is for flexible manufacturing planning and continuity of supply.

Reliability Data Summary:

QV DEVICE NAME: HCPL0639
RMS: 2208014897
PACKAGE: SO8

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=85°C, IF=20mA and IC=12mA	1008 hours	0/77
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, THB and AC or surface mount pkgs only	-	0/231
Temperature Cycling	JESD22-A104	Ta= -40°C to +125°C	1000 cycles	0/77
Temperature Humidity Bias	JESD22-A101	85°C, 85% RH, IC=IF=5mA	1008 hours	0/77
Autoclave	JESD22-A102	121°C, 100% RH, 29.7psia, unbiased	96 hours	0/77

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
HCPL062NR2	HCPL0639
HCPL062N	HCPL0639
HCPL0639R2	HCPL0639
HCPL0639	HCPL0639
HCPL0638R2	HCPL0639
HCPL0638	HCPL0639
HCPL0637R2	HCPL0639
HCPL0637	HCPL0639

Appendix A: Changed Products

PCN#: FPCN25222X
Issue Date: Mar 03, 2023

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
HCPL062NR2		HCPL0639		
HCPL062N		HCPL0639		
HCPL0639R2		HCPL0639		
HCPL0639		HCPL0639		
HCPL0638R2		HCPL0639		
HCPL0638		HCPL0639		
HCPL0637R2		HCPL0639		
HCPL0637		HCPL0639		