



Final Product/Process Change Notification

Document #:FPCN26073X

Issue Date:01 Oct 2024

Title of Change:	To introduce an alternative die supplier for both emitter and detector die in Full Pitch MFP package
Proposed First Ship date:	01 Aug 2025 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or ChingAik.Yeoh@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:	Assembly Change
Change Sub-Category(s):	Material Change
Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
None	- External Site not in list -

Description and Purpose:

To introduce an alternative die supplier for both emitter (*supplier C*) and detector die (*Supplier T*).

The qualification for the alternative die source is for continuity of supply. This change will have no impact on quality, reliability, electrical and the product will remain fully compliant.

	Before Change Description	After Change Description
Detector Die source	Supplier from M (USA)	Supplier from M (USA) or Supplier from C (China)
Detector Die Size	23mil x 23mil	23mil x 23mil or 18mil x 18mil
Emitter Die source	Supplier from A (Korea)	Supplier from A (Korea) or Supplier from T (Taiwan)
Emitter Die Size	9.8mil x 9.8mil	9.8mil x 9.8mil or 9mil x 9mil



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Reliability Data Summary:

QV DEVICE NAME: FODM1008

RMS: 70-20200080

PACKAGE: LSOP4

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=110°C, IF=20mA / IC=30mA	1008 hrs	0/80
High Temperature Reverse Bias	JESD22-A108	Ta=110°C, VCE=80V, IRLED OFF	1008 hrs	0/80
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/80
Preconditioning	J-STD-020 / JESD-A113	MSL 1 @ 260°C	-	0/160
Temperature Cycling	JESD22-A104	Ta= -55°C to +125°C	500 cyc	0/80
Temperature Humidity Bias	JESD22-A101	85°C, 85% RH, VCE=64V, IRLED OFF	1008 hrs	0/80

QV DEVICE NAME: FODM217M

RMS: 70-20200081

PACKAGE: MFP4

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=110°C, IF=20mA / IC=30mA	1008 hrs	0/80
High Temperature Reverse Bias	JESD22-A108	Ta=110°C, VCE=80V, IRLED OFF	1008 hrs	0/80
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/80
Preconditioning	J-STD-020 / JESD-A113	MSL 1 @ 260°C	-	0/160
Temperature Cycling	JESD22-A104	Ta= -55°C to +125°C	500 cyc	0/80
Temperature Humidity Bias	JESD22-A101	85°C, 85% RH, VCE=64V, IRLED OFF	1008 hrs	0/80

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
FODM121	FODM1008, FODM217
FODM121A	FODM1008, FODM217
FODM121AR2	FODM1008, FODM217
FODM121AR2V	FODM1008, FODM217
FODM121AR4	FODM1008, FODM217



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FODM121AV	FODM1008, FODM217
FODM121B	FODM1008, FODM217
FODM121BR2	FODM1008, FODM217
FODM121C	FODM1008, FODM217
FODM121CR2	FODM1008, FODM217
FODM121CR2V	FODM1008, FODM217
FODM121CR4V	FODM1008, FODM217
FODM121GR4	FODM1008, FODM217
FODM121R2	FODM1008, FODM217
FODM121R2V	FODM1008, FODM217
FODM121V	FODM1008, FODM217
FODM124	FODM1008, FODM217
FODM124R2	FODM1008, FODM217
FODM2705R2V	FODM1008, FODM217
FODM2705R2	FODM1008, FODM217
FODM2705	FODM1008, FODM217
FODM2701R4	FODM1008, FODM217
FODM2701R2	FODM1008, FODM217
FODM2701	FODM1008, FODM217
FODM124R2V	FODM1008, FODM217