



Final Product/Process Change Notification

Document #: FPCN22686Z1

Issue Date: 14 Nov 2021

Title of Change:	Update to FPCN22686Z with reference to CASE 507AU issue A in the previous announced Through Slot Wettable Flank Solution for PQFN56 Punch Automotive.
Proposed Changed Material First Ship Date:	16 Apr 2020 or earlier if approved by customer
Current Material Last Order Date:	01 Jan 2020 <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>
Current Material Last Delivery Date:	15 Apr 2020 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
Product Category:	Active components – Discrete components
Contact information:	Contact your local onsemi Sales Office or Peter.Lee@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Sample Availability Date:	15 Apr 2019
PPAP Availability Date:	15 Apr 2019
Additional Reliability Data:	Contact your local onsemi Sales Office
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .
Change Category	
Category	Type of Change
Process - Assembly	Change in leadframe dimensions

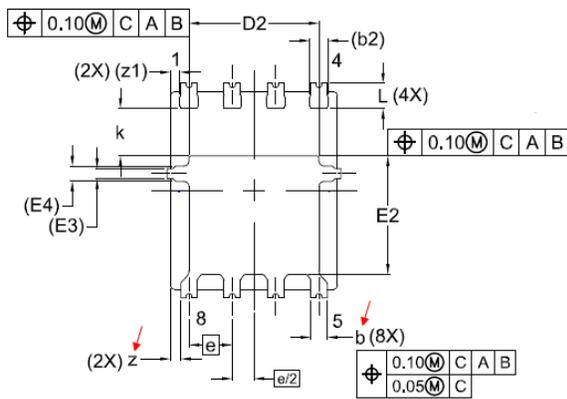
Description and Purpose:

Update to FPCN22686Z with reference to CASE 507AU issue A in the previous announced Through Slot Wettable Flank Solution for PQFN56 Punch Automotive.

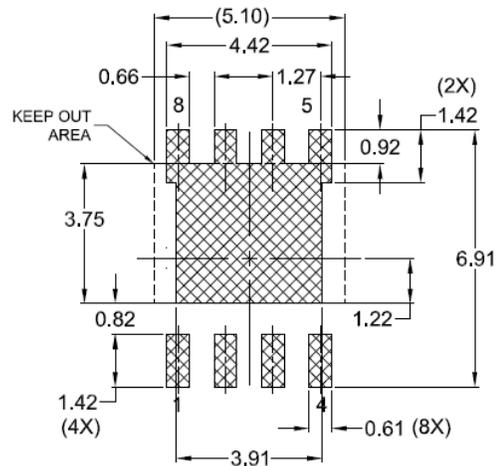
	From	To
LeadFrame	Through Slot Wettable Flank Dimension b: 0.49 ± 0.05 mm (lead width) Dimension z: 0.30 ± 0.05 mm (lead to package edge distance)	Through Slot Wettable Flank Dimension b: 0.52 ± 0.05mm Dimension z: 0.29 ± 0.05mm

Case outline dimensions that is affected by the change is highl ighted in Red color:

DIM	CASE 507AU Issue O			CASE 507AU Issue A		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.90	1.00	1.10	0.90	1.00	1.10
A1	0.00	-	0.05	0.00	-	0.05
A2	0.65	0.75	0.85	0.65	0.75	0.85
A3	0.30 REF			0.30 REF		
b	0.44	0.49	0.54	0.47	0.52	0.57
b1	0.13	0.18	0.23	0.13	0.18	0.23
b2	0.54			0.54		
D	5.00	5.10	5.20	5.00	5.10	5.20
D1	4.80	4.90	5.00	4.80	4.90	5.00
D2	3.72	3.82	3.92	3.72	3.82	3.92
E	6.20	6.30	6.40	6.20	6.30	6.40
E1	5.70	5.80	5.90	5.70	5.80	5.90
E2	3.38	3.48	3.58	3.38	3.48	3.58
E3	0.30 REF			0.30 REF		
E4	0.45 REF			0.45 REF		
e	1.27 BSC			1.27 BSC		
e/2	0.635 BSC			0.635 BSC		
k	1.30	1.40	1.50	1.30	1.40	1.50
L	0.64	0.74	0.84	0.64	0.74	0.84
z	0.25	0.30	0.35	0.24	0.29	0.34
z1	(0.28)			(0.28)		
θ	0°	---	12°	0°	---	12°



BOTTOM VIEW



LAND PATTERN RECOMMENDATION

Reason / Motivation for Change:

Specification Change

Anticipated impact on fit, form, function, reliability, product safety or manufacturability:

The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.

No anticipated impacts.



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Sites Affected:		
onsemi Sites		External Foundry/Subcon Sites
onsemi Cebu, Philippines		None
Marking of Parts/ Traceability of Change:	There is no product marking change as a result of this change.	
Reliability Data Summary:		
NO Change		
Electrical Characteristics Summary:		
Electrical characteristics are not impacted.		
List of Affected Parts:		
<p>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.</p>		
Current Part Number	New Part Number	Qualification Vehicle
FDWS86369-F085	NA	FDWS86368-F085
FDMS86369-F085	NA	FDWS86368-F085
FDWS86068-F085	NA	FDWS86368-F085
FDWS86368-F085	NA	FDWS86368-F085
FDWS86380-F085	NA	FDWS9408-F085
FDWS9508L-F085	NA	FDWS9408-F085
FDWS9509L-F085	NA	FDWS9408-F085
FDWS9510L-F085	NA	FDWS9408-F085
FDWS9511L-F085	NA	FDWS9408-F085
FDMS86368-F085	NA	FDWS86368-F085

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDWS86369-F085		FDWS86368-F085	NA	
FDWS86068-F085		FDWS86368-F085	NA	
FDWS86368-F085		FDWS86368-F085	NA	
FDWS9508L-F085		FDWS9408-F085	NA	
FDWS9509L-F085		FDWS9408-F085	NA	
FDWS9510L-F085		FDWS9408-F085	NA	
FDMS86368-F085		FDWS86368-F085	NA	
FDMS86369-F085		FDWS86368-F085	NA	