



# Final Product/Process Change Notification

Document #:FPCN22759XA

Issue Date: 06 Sep 2022

<b>Title of Change:</b>	Au to bare Cu wire conversion 2.0 mil wire size at SSOT3 package.	
<b>Proposed First Ship date:</b>	13 Dec 2022 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Ernesto.Villamor@onsemi.com">Ernesto.Villamor@onsemi.com</a> or <a href="mailto:Joseph.Mendoza@onsemi.com">Joseph Mendoza@onsemi.com</a>	
<b>PCN Samples Contact:</b>	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.	
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Aileen.Allado@onsemi.com">Aileen.Allado@onsemi.com</a>	
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	Identification is through date code cut-off.	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
onsemi Cebu, Philippines	None	
<b>Description and Purpose:</b>		
This OPNs (FDN8601) change bonding wire from gold to copper wire interconnect.		
This is to standardize the bonding wire uses in SSOT3 package.		
	<b>From</b>	<b>To</b>
<b>Bond Wire</b>	<b>2.0 mils Au wire</b>	<b>2.0 mils Cu wire</b>
There is no product marking change as a result of this change.		



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### Reliability Data Summary:

**QV DEVICE NAME:** FDN5632N-F085

**RMS** : F44276

**PACKAGE** : SOT23 3L

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0/231
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0/231
HTSL	JESD22-A103	Ta=150°C	2016 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/924
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cycs	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	2000 cycs	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
RSH	JESD22- B106	Ta = 265C	10 secs	0/90

**QV DEVICE NAME:** FDN86501LZ-SN00389

**RMS** : F44278

**PACKAGE** : SOT23 3L

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/308
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cycs	0/77
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cycs	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
RSH	JESD22- B106	Ta = 265C	10 secs	0/30



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**QV DEVICE NAME:** FDN86246

**RMS** : F81264 and F83347

**PACKAGE** : SOT23 3L

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/154
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/308
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cycs	0/154
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/154
RSH	JESD22- B106	Ta = 265C	10 secs	0/60

### 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
FDN8601	FDN86501LZ-SN00389, FDN5632N-F085

Appendix A: Changed Products

PCN#: FPCN22759XA  
Issue Date: Sep 05, 2022

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDN8601		FDN86501LZ-SN00389,FDN5632N-F0389	FDN8601A	