



Final Product/Process Change Notification

Document #:FPCN25905X

Issue Date:02 May 2024

Title of Change:	Sumitomo G600 to replace Kyocera KE-G3000D-4TV.																																						
Proposed First Ship date:	09 Aug 2024 or earlier if approved by customer																																						
Contact Information:	Contact your local onsemi Sales Office or Rob.Fazonela@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 Chielo.Basa@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:	Product traceability will be maintained by date code																																						
Change Category:	Assembly Change																																						
Change Sub-Category(s):	Material Change																																						
Sites Affected:																																							
onsemi Sites		External Foundry/Subcon Sites																																					
None		ATEC - Automated Technology, Philippines																																					
Description and Purpose:																																							
This Final Product Change Notification (FPCN) is to notify customers that onsemi has qualified Sumitomo G600 mold compound as a replacement for existing Kyocera KE-G3000D-4TV mold compound for the devices listed in this notification due to supply discontinuance.																																							
<table><tr><th></th><th>From</th><th>To</th></tr><tr><td>Mold Compound</td><td>Kyocera KE-G3000D-4TV</td><td>Sumitomo G600</td></tr></table>						From	To	Mold Compound	Kyocera KE-G3000D-4TV	Sumitomo G600																													
	From	To																																					
Mold Compound	Kyocera KE-G3000D-4TV	Sumitomo G600																																					
Reliability Data Summary:																																							
QV DEVICE NAME: FIN3386MTDX RMS: O92907 PACKAGE: TSSOP 56																																							
<table><tr><th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th><th>Results</th></tr><tr><td>High Temperature Storage Life</td><td>JESD22-A103</td><td>Ta= 150°C</td><td>1008 hrs</td><td>0/240</td></tr><tr><td>Preconditioning</td><td>J-STD-020 JESD-A113</td><td>MSL 2 @ 260°C, Pre TC, uHAST for surface mount pkgs only</td><td></td><td>0/480</td></tr><tr><td>Temperature Cycling</td><td>JESD22-A104</td><td>Ta= -65°C to + 150°C</td><td>500 cyc</td><td>0/240</td></tr><tr><td>Unbiased Highly Accelerated Stress Test</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig, unbiased</td><td>96 hrs</td><td>0/240</td></tr><tr><td>Solderability</td><td>JSTD002</td><td>Ta = 245°C, 5 sec</td><td></td><td>0/ 45</td></tr><tr><td>Physical Dimensions</td><td>JESD22-B100 and JESD22-B108</td><td>Per Case Outline</td><td></td><td>0/30</td></tr></table>					Test	Specification	Condition	Interval	Results	High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240	Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260°C, Pre TC, uHAST for surface mount pkgs only		0/480	Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/240	Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240	Solderability	JSTD002	Ta = 245°C, 5 sec		0/ 45	Physical Dimensions	JESD22-B100 and JESD22-B108	Per Case Outline		0/30
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High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240																																			
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Physical Dimensions	JESD22-B100 and JESD22-B108	Per Case Outline		0/30																																			



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QV DEVICE NAME: FIN3385MTDX

RMS: O92919

PACKAGE: TSSOP 56

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/240
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/240

QV DEVICE NAME: 74LCX16646MTDX

RMS: O92908

PACKAGE: TSSOP 56

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260°C, Pre TC, uHAST for surface mount pkgs only		0/480
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/240
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
Solderability	JSTD002	Ta = 245°C, 5 sec		0/ 45
Physical Dimensions	JESD22-B100 and JESD22-B108	Per Case Outline		0/30

QV DEVICE NAME: 74LCX16245MTD

RMS: O92921

PACKAGE: TSSOP 48

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/240
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/240

Electrical Characteristics Summary:

Electrical characteristics are not impacted.



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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
74LCX162244MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCX16240MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCX16244MTD	74LCX16646MTDX / 74LCX16245MTDX
74LCX16245MTD	74LCX16646MTDX / 74LCX16245MTDX
74LCX16501MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCX16543MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCX16646MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCXH162244MTX	74LCX16646MTDX / 74LCX16245MTDX
74LCXH16244MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCXH16245MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCXP16245MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCXR162245MTX	74LCX16646MTDX / 74LCX16245MTDX
74LCXZ16244MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LCXZ16245MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LVT162244MTD	74LCX16646MTDX / 74LCX16245MTDX
74LVT162244MTDX	74LCX16646MTDX / 74LCX16245MTDX
74VCX16245MTDX	FIN3386MTDX / FIN3385MTDX
74ALVC16245MTDX	FIN3386MTDX / FIN3385MTDX
FIN1216MTDX	FIN3386MTDX / FIN3385MTDX
FIN1108MTDX	FIN3386MTDX / FIN3385MTDX
FIN1215MTDX	FIN3386MTDX / FIN3385MTDX
FIN3386MTDX	FIN3386MTDX / FIN3385MTDX
FIN3385MTDX	FIN3386MTDX / FIN3385MTDX
74LVTH162244MTX	74LCX16646MTDX / 74LCX16245MTDX
74LVT16374MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LVT16373MTDX	74LCX16646MTDX / 74LCX16245MTDX
74LVT162245MTDX	74LCX16646MTDX / 74LCX16245MTDX

Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
74LCX16244MTD		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LCX16501MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LCX16646MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LCXH16244MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LCXH16245MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LCXR162245MTX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LVT162244MTD		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LVT162244MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74VCX16245MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
74ALVC16245MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
FIN1216MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
FIN1108MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
FIN1215MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
FIN3386MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
FIN3385MTDX		FIN3386MTDX / FIN3385MTDX	#NONE	
74LVTH162244MTX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LVT16374MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LVT16373MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LVT162245MTDX		74LCX16646MTDX / 74LCX16245MTDX	#NONE	
74LCX16245MTD		74LCX16646MTDX / 74LCX16245MTDX	#NONE	