



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION#20271

Generic Copy

Issue Date: 15-Oct-2013

TITLE: Qualification of Supervisor with 16 k EEPROM Memory CAT1161, CAT1162, and CAT1163 devices for fabrication at ON Semiconductor's Gresham, Oregon Wafer Fab.

PROPOSED FIRST SHIP DATE: 15-Jan-2014 or earlier upon customer approval

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Fabrication Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Denisa Stefan<denisa.stefan@onsemi.com>

SAMPLES:

Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Francis Lualhati<ffxczy@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

ON Semiconductor is pleased to announce that, as part of its ongoing effort to improve product availability, the Serial EEPROM devices CAT116x are now qualified for production in the 0.35 μ m CMOS EE process at ON Semiconductor's 8-inch Wafer Fab in Gresham, Oregon, USA. The Gresham Wafer Fab is ISO9001:2008, ISO/TS16949:2009 and ISO14001:2004 certified.



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RELIABILITY DATA SUMMARY:

Package: TSSOP
 Qual Vehicles: CAV24C64YE-GT3

Qualification Results and Analysis:

Test:	Conditions:	Interval:	Results
HTOL	TA=150°C, Biased	1008 hrs	0/231
ELFR	TA=150°C, Biased	24 hrs	0/231
EDR(Endurance)	TA=25°C	1 Mil cycle	0/231
EDR(Data Retention)	TA=150°C	1008 hrs	0/231
HTSL	TA = 150°C	1008 hrs	0/80
HAST+PC	Ta=130C RH=85%, unbiased	96 hrs	0/240
TC+PC	Ta= -65 C to 150 C	500 cyc	0/240
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
DPA	Following TC+PC		0/15

Conclusion: All reliability requirements have been met.

Package: SOIC
 Qual Vehicles: CAV24C64WE-GT3

Qualification Results and Analysis:

Test:	Conditions:	Interval:	Results
HTOL	TA=150°C, Biased	1008 hrs	0/231
ELFR	TA=150°C, Biased	24 hrs	0/231
EDR(Endurance)	TA=25°C	1 Mil cycle	0/231
EDR(Data Retention)	TA=150°C	1008 hrs	0/231
HTSL	TA = 150°C	1008 hrs	0/80
HAST+PC	Ta=130C RH=85%, unbiased	96 hrs	0/240
TC+PC	Ta= -65 C to 150 C	500 cyc	0/240
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
DPA	Following TC+PC		0/15

Conclusion: All reliability requirements have been met.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20271****ELECTRICAL CHARACTERISTIC SUMMARY:**

Device parameters will continue to meet all datasheet specifications. Characterization data is available upon request. Even though device specifications remain unchanged, ON Semiconductor recommends samples be obtained for application specific review.

CHANGED PART IDENTIFICATION:

The top package marking for the new Gresham die versus current marking used for the OKI die is shown in the attached Appendix. The new top package marking used for newly introduced Gresham die reflects the integration of former CSI (Catalyst) into ON Semiconductor, and provides for easier identification of device and die revision.

Die origin will also be identified on the packaging box label by the 2-digit wafer fabrication country code, CS: US for Gresham and CS: Japan for OKI.



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List of Affected General Parts:

Part Number (OPN)
CAT1161LI-25-G
CAT1161LI-28-G
CAT1161LI-30-G
CAT1161LI-42-G
CAT1161LI-45-G
CAT1161WI-28-G
CAT1161WI-25-G
CAT1161WI-25-GT3
CAT1161WI-28-GT3
CAT1161WI-30-G
CAT1161WI-30-GT3
CAT1161WI-42-G
CAT1161WI-42-GT3
CAT1161WI-45-G
CAT1161WI-45-GT3
CAT1162LI-25-G
CAT1162LI-28-G
CAT1162LI-30-G
CAT1162LI-42-G
CAT1162LI-45-G
CAT1162WI-25-G
CAT1162WI-25-GT3
CAT1162WI-28-G
CAT1162WI-28-GT3
CAT1162WI-30-G
CAT1162WI-30-GT3
CAT1162WI-42-G
CAT1162WI-42-GT3
CAT1162WI-45-G
CAT1162WI-45-GT3
CAT1163LI-25-G
CAT1163LI-28-G
CAT1163LI-30-G
CAT1163LI-42-G
CAT1163LI-45-G
CAT1163WI-25-G
CAT1163WI-25-GT3
CAT1163WI-28-G
CAT1163WI-28-GT3
CAT1163WI-30-G
CAT1163WI-30-GT3
CAT1163WI-42-G
CAT1163WI-42-GT3
CAT1163WI-45-G
CAT1163WI-45-GT3



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Appendix – PART IDENTIFICATION

CAT1161 Package Marking – Gresham die versus actual OKI die

OKI 0.8	GRESHAM 0.35
SOIC-8(W)	
<ul style="list-style-type: none"> 1: Reset Threshold Voltage 2: Assembly Location Code 3: Lead Finish 4: Product Revision 5-12: Product Code 13: Temp Range 14: Production Year 15: Production Month 16-19: Assembly Lot Number 	<ul style="list-style-type: none"> 1-4: Product Code 5: Reset Threshold Voltage 6: Product Revision 7: Assembly Location Code 8: Production Year 9: Production Month 10-12: Assembly Lot Number ●: Pb-free microdot
Example: CAT1161	
<p>OKI (Rev. A)</p>	<p>Gresham (Rev. C)</p>
<ul style="list-style-type: none"> 1: Reset Threshold Voltage 2: Assembly Location Code 3: Lead Finish 4: Product Revision 5-12: Product Code 13: Temp Range 14: Production Year 15: Production Month 16-19: Assembly Lot Number 	<ul style="list-style-type: none"> 1-4: Product Code 5: Reset Threshold Voltage 6: Product Revision 7: Assembly Location Code 8: Production Year 9: Production Month 10-12: Assembly Lot Number ●: Pb-free microdot



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OKI 0.8	GRESHAM 0.35
PDIP-8(L)	
<ul style="list-style-type: none"> 1: Reset Threshold Voltage 2: Assembly Location Code 3: Lead Finish 4: Product Revision 5-12: Product Code 13: Temp Range 14: Production Year 15: Production Month 16-19: Assembly Lot Number 	<ul style="list-style-type: none"> 1-4: Product Code 6-7: Reset Threshold Voltage 8: Product Revision 9: Assembly Location Code 10-12: Assembly Lot Number 13-14: Production Year 15-16: Production Week 17: Pb-free designator
Example; CAT1161	
<ul style="list-style-type: none"> 1: Assembly Location Code 2: Lead Finish (NiPdAu) 3: Product Revision 4-9: Product Code 10: Temp Range 11: Production Year 12: Production Month 13-16: Assembly Lot Number 	<ul style="list-style-type: none"> 1-4: Product Code 6-7: Reset Threshold Voltage 8: Product Revision 9: Assembly Location Code 10-12: Assembly Lot Number 13-14: Production Year 15-16: Production Week 17: Pb-free designator