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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16789**Generic Copy

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**Issue Date:** 30-Jan-2012

**TITLE:** Announcement of alternative product delivery associated with SSTH (Sanyo Semiconductor Thailand) flood damage

**PROPOSED FIRST SHIP DATE:** 30-Apr-2012 (or earlier with customer approval)

**AFFECTED CHANGE CATEGORY(S):** Assembly/Test Location

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office. For affected devices below in Group A thru Group H, contact [Tetsuo.Ishizuka@onsemi.com](mailto:Tetsuo.Ishizuka@onsemi.com).

For affected devices in Group I and Group J, contact [Toshikazu.Hirai@onsemi.com](mailto:Toshikazu.Hirai@onsemi.com).

**SAMPLES:** Contact your local ON Semiconductor Sales Office or [Akira.Yoneyama@onsemi.com](mailto:Akira.Yoneyama@onsemi.com)

**ADDITIONAL RELIABILITY DATA:** May be available

Contact your local ON Semiconductor Sales Office. For affected devices below in Group A thru Group H, contact [Shoji.Suematsu@onsemi.com](mailto:Shoji.Suematsu@onsemi.com).

For affected devices in Group I and Group J, contact [Osamu.Ishihara@onsemi.com](mailto:Osamu.Ishihara@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:**

We sincerely apologize to you for your severe inconvenience encountered due to the unexpected flood damage at our SSTH manufacturing facility. In response to this flood damage at SSTH, we would like to communicate our strategy and plans towards alternative product delivery. Our alternative product delivery implementation plan should have already been communicated to you by our sales representative. We are now focused on maintaining product delivery as our utmost priority so that our customers will not experience delivery inconveniences. Additionally we have been, and will continue to make our best efforts to ramp up alternate production lines as quickly as we can.

This letter will serve as our 'Product Change Notice' with respect to the events at our SSTH facility.

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Your further understanding for our simplified procedure towards changes as well as for your requests is kindly requested. We will continue to update technical specifications and product technical changes where necessary and appreciate your acceptance towards them. In case of change in package type or dimensions, major materials or plate composition, you will receive notification separately. Finally we are regretful if our announcement is insufficient in detail. Again in the case of necessary product specification changes you will be notified separately. At the same time, your continuous support for our circumstance is immensely appreciated.

**RELIABILITY DATA:**

Due to the urgency, reliability qualification data is currently in process and data can be made available for completed tests. Some tests below are applicable to discrete devices, some tests applicable to integrated circuit devices. Some package related tests will have specified preconditioning testing before applicable qualification stress tests.

Our qualification normally consists of performing 1000 hours of reliability testing before releasing product for shipments.

However, if you prefer to receive product before we can fully complete our reliability testing, we will require the remaining content of the attached letter to be acknowledged and completed.

Please contact your local sales person for the arrangement and agreement.

See attachment "OA\_SSTH Flooding Incomplete Reliability".


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**Reliability Test Plan:**

Test	Conditions	Duration	Group A,B	Group C,D,E,F,G,H	Group I,J
HTRB High Temperature reverse Bias	Temperature = max Voltage = max	1000 hours	NA		✓
AC or PC Autoclave or Pressure Cooker	121C, RH=100% 2.03 x 10E5 Pa	50 hours	NA	✓	✓
TS Temperature Shock	0C to +100C 5 min	200 cycles	NA		✓
LTSL Low Temperature Storage Life	Temp(storage) = min	1000 hours	NA		✓
HTSL High Temperature Storage Life	Temp(storage) = max	1000 hours	NA	✓	
IOL Intermittent Operating Life	Ta = 25C Delta Tj = 90C	10,000 cycles	NA		✓
THS Temperature, Humidity, Storage	Temperature = 85C Humidity = 85%	1000 hours	NA	✓	
TC Temperature Cycle	-55C to +150C 30 min	200 cycles	NA	✓	
RSH Resistance to Solder Heat	Peak Temperature = 260C	10 sec max	NA	✓	

**CHANGED PART IDENTIFICATION:**

Identified by marking lot number for some devices and other devices will have a changed suffix part number for traceability.



## FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16789

### List of affected General Parts:

**Group A** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to KSS – Kanto Sanyo Semiconductor)

**CHANGED PART IDENTIFICATION:** Identified by marking lot number

LB8649W-MPB-E	LV5609LP-E	LC75852W-TLM-E
LB8649W-TBM-E	LV5609LP-TE-L-E	LC75853NW-E
LV8018W-MPB-E	LV8402GP-TE-L-H	LC75853NW-TLM-E
LC08900PW-A-TLM-E	LB1938T-TLM-E	LC75854WHS-USV-TLM-E
LV24100LP-TLM-E	LB1938T-TLM-H	LC75854W-TLM-E
LV8044LP-MPB-E	LC75841PEH-UGN-TFM-H	LC75857W-E
LA6581T-TE-L-E	LC75841PEHUGN-TH	LC75412EH-E
LA6585T-TLM-E	LC75834JEHS-USL-E	LC75412E-UHK-E
LA6595T-TLM-E	LC75834W-E	LC75725E-E
LB1941T-TLM-E	LC75834WHS-TLM-E	LC75725EHS-E
LV8075LP-TE-L-E	LC75836WH-E	LC75725E-TLA-E
LV8080LP-TE-L-E	C75854WHS-USV-LE	LC75821E-E
LV8413GP-E	LC75824W-E	LC75822E-E
LV8413GP-TE-L-E	LC75832WS-E	LC75822EHS-T-E
LV8413GP-TE-L-H	LC75852W-E	

**Group B** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to SSMP – Sanyo Semiconductor Manufacturing Philippines)

**CHANGED PART IDENTIFICATION:** Identified by marking lot number

LC75832E-E
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**Group C** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to SSMP – Sanyo Semiconductor Manufacturing Philippines (Including materials))

**CHANGED PART IDENTIFICATION:** Identified by marking lot number

LB1836M-MPB-E
LB1836M-TLM-E

**Group D** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to Amkor Technology)

**CHANGED PART IDENTIFICATION:** Identified by marking Part number

Current Part Number	NEW Part Number
LV8747T-TLM-E	LV8747TA-AE



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**Group E** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to Aoi Electronics)

**CHANGED PART IDENTIFICATION:** Identified by marking Part number

Current Part Number	NEW Part Number
LC72131KM-TLM-E	LC72131KMA-AE

**Group F** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to J-Devices Corporation)

**CHANGED PART IDENTIFICATION:** Identified by marking Part number

Current Part Number	NEW Part Number
LA1844M-TLM-E	LA1844MC-AH
LC72121M-TLM-E	LC72121MA-AH

**Group G** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to OSPI – ON Semiconductor, Philippines)

**CHANGED PART IDENTIFICATION:** Identified by marking Part number

Current Part Number	NEW Part Number
LA5735M-TLM-E	LA5735MC-AH
LA4537M-TE-L-E	LA4537MC-BH
LB1638M-TLM-E	LB1638MC-AH
LB1830M-TLM-E	LB1830MC-AH
LB1848M-TE-R-E	LB1848MC-GH
LB1848M-TLM-E	LB1848MC-AH
LB1848M-TRM-H	LB1848MC-FH
LB1909M-TE-L-E	LB1909MC-BH
LB1930M-TLM-E	LB1930MC-AH
LB1962M-TLM-E	LB1962MC-AH
LV8548M-TLM-H	LV8548MC-AH
LV8549M-TLM-H	LV8549MC-AH
ICC3-TLM-E	ICC3-FP-AH
LA1178M-TLM-E	LA1178MC-SHR-AH
LA1235M-TLM-E	LA1235MC-SHR-AH
LA3335M-TLM-E	LA3335MC-SHR-AH
LA1225M-TLM-E	LA1225MC-AH

**Group H** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to Taihei Electronics Co., Ltd.)

**CHANGED PART IDENTIFICATION:** Identified by marking Part number

Current Part Number	NEW Part Number
LB1846M-TLM-E	LB1846MC-AH
LB1862M-TLM-E	LB1862MC-AH
LB1948M-TE-L-E	LB1948MC-BH



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**Group I** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to SP Semiconductor & Communication Co., Ltd.)

### CHANGED PART IDENTIFICATION:

As a mean of the identification, we will add the suffix “-1EX”.

Current Part Number	NEW Part Number (adding suffix -1EX)
2SA2099	2SA2099-1EX
2SC5888	2SC5888-1EX
2SC6082	2SC6082-1EX
2SJ652	2SJ652-1EX
2SJ656	2SJ656-1EX
2SK3703	2SK3703-1EX
2SK3704	2SK3704-1EX
2SK3745LS	2SK3745LS-1EX
2SK3746	2SK3746-1EX
2SK3747-MG8	2SK3747-1EX
2SK3748	2SK3748-1EX
2SK4085LS	2SK4085LS-1EX
2SK4124	2SK4124-1EX
2SK4125	2SK4125-1EX
2SK4177-DL-E	2SK4177-DL-1EX
2SK4210	2SK4210-1EX
BBS3002-DL-E	BBS3002-DL-1EX
SBA120-18J	SBA120-18JS-1EX
SBR100-10J	SBR100-10JS-1EX
SBR100-16JS	SBR100-16JS-1EX
SBR160-10J	SBR160-10JS-1EX
SBR200-16JS	SBR200-16JS-1EX
SBT100-16JS	SBT100-16JS-1EX
SBT150-04J	SBT150-04JS-1EX
SBT150-06J	SBT150-06JS-1EX
SBT250-04J	SBT250-04JS-1EX
SBT250-06J	SBT250-06JS-1EX
SBT350-06J	SBT350-06JS-1EX
SBT80-04J	SBT80-04JS-1EX
SBT80-06LS	SBT80-06JS-1EX
SBT80-10LS	SBT80-10JS-1EX

**Group J** (Parts transferring from SSTH – Sanyo Semiconductor Thailand to GEM Electronics, Shanghai, Co., Ltd.)

### CHANGED PART IDENTIFICATION:

As a mean of the identification, we will add the suffix -2HX.

Current Part Number	NEW Part Number (adding suffix -2HX)
TND027SW-TL-E	TND027SW-TL-2HX