INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16495

Generic Copy

Issue Date: 21-July-2010

TITLE: Initial Notification of DPAK capacity expansion of some Discrete devices at Ningbo Mingxin Microelectronics Co., Ltd. and Nantong Fujitsu Microelectronics Co., Ltd.

PROPOSED FIRST SHIP DATE: 21-Nov-2010

AFFECTED CHANGE CATEGORY(S): Additional DPAK packaging sites

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or Sean Clark<sean.clark@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

To meet customer demand for Standard Products in the DPAK (TO-252 and TO-251) package, ON Semiconductor is expanding capacity at two suppliers: Nantong Fujitsu and Ningbo MingXin Ltd.

ON Semiconductor Standard Products Group will also continue to utilize our facility in Seremban, Malaysia for the assembly and test of Standard Products in the DPAK package.

Nantong Fujitsu Microelectronics Co., Ltd. is a long term supplier of many packages to ON Semiconductor and is ISO9002, ISO14001 and TS16949 certified. The facility is currently used to manufacture ON Semiconductor’s TO-220AB, AC, I2PAK, TO-247 and other DPAK devices. Ningbo MingXin Microelectronics Ltd. Is a supplier of power packages to many large semiconductor companies and is ISO9002, ISO14001 and TS16949 certified.

The DPAK capacity expansion of halide-free products will affect the listed Discrete devices.

INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16495

QUALIFICATION PLAN:

Qualification tests are designed to show that the reliability of transferred devices will continue to meet or exceed ON Semiconductor standards.

Estimated Date for Qualification Completion: Q3-2010
Samples should be available after completion of Qualification.

Reliability testing will be performed on qualification vehicles chosen based on die size and voltage rating. The following qualification vehicles were selected for this qualification.

MURD550PFT4G
MBRD5H100T4G
MJD340T4G
MJD350T4G
MBRD660CTT4G

RELIABILITY DATA SUMMARY:

Test:	**Conditions:**	**Interval:**
HTRB	Ta=150C,80% Rated Voltage	1008 hrs
PreConditioning	MSL 1 @ 260C	
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc
TC+PC	Ta= -65 C to 150 C	1000 cyc
RSH	Ta=260C, 10 sec dwell	
Solderability	Ta=245C, 10 sec dwell	

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List of affected General Parts:

PART

BUD42DT4G
MJD112G
MJD112RLG
MJD112T4G
MJD117G
MJD117RLG
MJD117T4G
MJD122G
MJD122T4G
MJD127G
MJD127T4G
MJD128T4G
MJD148T4G
MJD200G
MJD200RLG
MJD200T4G
MJD200T5G
MJD210G
MJD210RLG
MJD210T4G
MJD243G
MJD243T4G
MJD253T4G
MJD2955G
MJD2955T4G
MJD3055G
MJD3055T4G
MJD31C1G
MJD31CG
MJD31CRLG
MJD31CT4G
MJD31T4G
MJD32CG
MJD32CRLG
MJD32CT4G
MJD32RLG
MJD32T4G
MJD340G
MJD340RLG
MJD340T4G
MJD350G
MJD350T4G
MJD41CRLG
MJD41CT4G
MJD42C1G
MJD42CG
MJD42CRLG
MJD42CT4G
MJD44E3T4G
MJD44H11G
MJD44H11RLG
MJD44H11T4G
MJD44H11T5G
MJD45H11G
MJD45H11RLG
MJD45H11T4G
MJD47G
MJD47T4G
MJD50G
MJD50T4G
MJD5731T4G
MJD6039T4G
NJD2873T4G
NJD35N04G
NJD35N04T4G
MBRD1035CTLG
MBRD1035CTLT4G
MBRD1045T4G
MBRD320G
MBRD320RLG
MBRD320RLH
MBRD320T4G
MBRD320T4H
MBRD330G
MBRD330RLG
MBRD330T4G
MBRD340G
MBRD340RLG
MBRD340T4G
MBRD350G
MBRD350RLG
MBRD350T4G
MBRD360G
MBRD360RLG
MBRD360T4G
MBRD5H100T4G
MBRD620CTT4G
MBRD630CTT4G
MBRD640CTG
MBRD640CTT4G
MBRD640CTT4H
MBRD650CTG
MBRD650CTT4G
MBRD660CTG
MBRD660CTRLG
MBRD660CTT4G
MBRD660CTT4H
MBRD835LG
MBRD835LT4G
MBRD835LT4H
MSRD620CTG
MSRD620CTRG
MSRD620CTT4G
MSRD620CTT4RG
MURD320T4G
MURD330T4G
MURD340T4G
MURD530T4G
MURD550PFT4G
MURD620CTG
MURD620CTH
MURD620CTT4G
MURHD560T4G
MURHD560W1T4G