



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

07-DEC-2001

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #12106

TITLE: Initial Notification for Primarion to Phenitec Wafer Fab Transfer

EFFECTIVE DATE: 06-Apr-2002

AFFECTED CHANGE CATEGORY: Subcontractor Fab Site & Wafer Process

AFFECTED PRODUCT DIVISION: Bipolar Discretes Products Div

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Laura Rivers <S20636@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Office or Jake Lee <R14795@onsemi.com>

DISCLAIMER:

Initial Product/Process Change Notification (IPCEN) -First Notification distributed to customers.
Distributed at least 120 days from the effective date of the change.

DESCRIPTION AND PURPOSE:

In order to continue to fully support our customer's requirements for JFET, High Frequency NPN Transistors, High Voltage NPN Transistors, High Speed switching Transistors, Tuning and Pin Diodes, the fabrication of these devices is being moved from ON Semiconductor's current subcontractor wafer fab, Primarion in Phoenix to a new subcontractor wafer fab, Phenitec in Japan. Phenitec has been a qualified wafer fab for ON Semiconductor and has been supplying TMOS, Logic and Analog devices to ON Semiconductor and has been manufacturing various packages for several years. A more specific timeframe for this transfer will be notified on the Final PCN.



Initial Product/Process Change Notification #12106

QUALIFICATION PLAN: *Qual vehicle list

Qual Vehicle	Technology	Reason Chosen
MMBT2369ALT1	High speed switching	Largest die(15X15), medium voltage, Most complex, historical data,
MMBFJ310LT1	N-ch JFET	Large die(18X17 mils), medium voltage(25V), Most complex, historical data,
MMBFJ175LT1	P-ch JFET	Largest die(20X20), high voltage, Most complex, historical data,
MMBTA42LT1	NPN high voltage,	Largest die(21X21), highest voltage Most complex, historical data, large volume
MMBV432LT1	Tuning Diode	Largest die(30X30), high voltage, Most complex, historical data
MMBV609LT1	Hyper Tuning	Largest die(26x26 mils), medium voltage, Most complex, historical data
MMBTH10LT1	NPN High frequency	Largest die(15x15 mils), medium voltage, Most complex, historical data

Qual Plan:

TEST	CONDITIONS	INTERVAL	SIZE
Autoclave	Ta=121DegC , RH=100%, P=15 psig,	0 96	336 336
Temperature Cycle	Ta=65/+150DegC, Air to Air, Dwell equal to or greater than 15 Min., Transfer equal to or less than 10 Min.	0 500 1000	336 336 336
IOL	Ton=2 min, Toff=2min, Ta=25 DegC	7500 cycles 15000 cycles	336 336
External Visual	Equal to or greater than Mid-Std-750, Method 2071	N/M	100%
D.P.A	Random sample of good Temp Cycle and H3TRB devices per CDF-AEC-Q101-004 Section	N/M	6
Die Bond (Die Shear)	In-process assembly	N/M	45
Wire Bond (Pull)	In-process assembly	N/M	45
Bond Strength, Ball Shear	In-process assembly	N/M	45
High Humidity High Temp. Reverse Bias	Ta=+85DegC, RH=85%	0 504 1008	336 336 336
High Temp. Reverse Bias	Ta=+150DegC	0 504 1008	336 336 336
Electro Static Discharge	Human Body Model & Machine Models 1 & 2	N/M	42

**Initial Product/Process Change Notification #12106****AFFECTED DEVICE LIST (WITHOUT SPECIALS):****PART**

2N3819, 2N4264, 2N5457, 2N5458, 2N5460, 2N5461, 2N5461RLRA, 2N5462, 2N5462RLRP, 2N5485, 2N5486, 2N5486RLRP, 2N5555, 2N5638RLRA, 2N5639, 2N5639RLRA, 2N6515, 2N6515RLRM, 2N6517, 2N6517RLRA, 2N6517RLRP, BAS116LT1, BAV199LT1, BF245A, BF245AZL1, BF245B, BF256A, BF392ZL1, BF393, BF393ZL1, BF420RL1, BF420ZL1, BF422, BF422RL1, BF422ZL1, BF720T1, BF720T3, BF959, BF959RL1, BF959ZL1, BFR30LT1, BFR31LT1, BSP19AT1, BSR58LT1, BSV52LT1, J110, J110RLRA, J111RL1, J111RLRA, J111RLRP, J112, J112RL1, J112RLRA, J113RL1, J309, J310, J310RLRP, J310ZL1, LM9016G, LM9018F, LM9018G, LM9018H, LMC2330WP, LMC2369WP, LMCFA14WP, LMMBV432LT1, LV2205, LV2209, MMBC1321Q4LT1, MMBF4391LT1, MMBF4392LT1, MMBF4393LT1, MMBF4416LT1, MMBF5457LT1, MMBF5460LT1, MMBF5484LT1, MMBFJ175LT1, MMBFJ177LT1, MMBFJ309LT1, MMBFJ310LT1, MMBFJ310LT3, MMBFU310LT1, MMBT2222ALT1P, MMBT2369ALT1, MMBT2369ALT3, MMBT2369LT1, MMBT3904LT1P, MMBT6517LT1, MMBT6517LT3, MMBT918LT1, MMBTA42LT1, MMBTA42LT3, MMBTA43LT1, MMBTH10-4LT1, MMBTH10LT1, MMBV105GLT1, MMBV109LT1, MMBV109LT3, MMBV2101LT1, MMBV2103LT1, MMBV2105LT1, MMBV2107LT1, MMBV2108LT1, MMBV2109LT1, MMBV3102LT1, MMBV3401LT1, MMBV3401LT3, MMBV3700LT1, MMBV409LT1, MMBV432LT1, MMBV609LT1, MMBV809LT1, MMBV809LT3, MMPQ2369, MMPQ2369R2, MMSV3401T1, MMVL105GT1, MMVL109T1, MMVL2101T1, MMVL2105T1, MMVL239T1, MMVL3102T1, MMVL3401T1, MMVL3700T1, MMVL409T1, MMVL809T1, MPF102, MPF102RLRA, MPF4392, MPF4393, MPF4393RLRP, MPF4856RLRA, MPN3404, MPN3404RLRA, MPN3700, MPS2369, MPS2369A, MPS2369ARLRP, MPS2369RLRA, MPS2369RLRM, MPS2369ZL1, MPS3563, MPS3563RLRA, MPS3646, MPS3646RLRA, MPS3646RLRM, MPS5179, MPS5179RLRA, MPS5179RLRP, MPS6507, MPS918, MPS918ZL1, MPS9426C, MPSA42, MPSA42RL1, MPSA42RLRA, MPSA42RLRE, MPSA42RLRF, MPSA42RLRM, MPSA42RLRP, MPSA42ZL1, MPSA43, MPSA43RLRA, MPSA43ZL1, MPSA44, MPSA44RL1, MPSA44RLRA, MPSH10, MPSH10RLRA, MPSH10RLRP, MPSH17, MPSH17RLRA, MPSW42, MPSW42RLRA, MSC2295-BT1, MSC2295-BT2, MSC2295-CT1, MSC2295-CT2, MSC3130T1, MSC3930-BT1, MSD2714AT1, MSD42T1, MSD42WT1, MV104, MV104RLRA, MV209, MV209RLRA, MV209RLRP, MV2101, MV2105, MV2105RLRA, MV2109, MV2109RLRA, MV2109RLRP, NSF2250WT1, NSR2369AWP, P2N2369ZL1, PBF259RSRL1, PBF259RSZL1, PZTA42T1, SBAV199LT1, SMMBF4392LT1, SMMBF4393LT1, SMMBF5457LT1, SMMBFJ175LT1, SMMBFJ177LT1, SMMBFJ309LT1, SMMBFJ310LT1, SMMBFJ310LT3, SMMBT2369ALT1, SMMBT2369ALT3, SMMBT6517LT1, SMMBT6517LT3, SMMBT918LT1, SMMBTA42LT1, SMMBTA42LT3, SMMBTH10LT1, SMMBV105GLT1, SMMBV109LT1, SMMBV109LT3, SMMBV432LT1, SMMBV609LT1, SMMBV809LT1, SMMBV809LT3