

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION

Generic Copy

18-DEC-2002

SUBJECT: ON Semiconductor Final Product/Process Change Notification #12646

TITLE: Final Notification for Primarion to Phenitec Wafer Fab Transfer

EFFECTIVE DATE: 16-Feb-2003

AFFECTED CHANGE CATEGORY: Subcontractor Fab Site

AFFECTED PRODUCT DIVISION: Bipolar Discretes Products Div

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Laura Rivers < \$20636@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office or Barbara Matteson RM2230@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Office or Fred Marchesi < RGM520@onsemi.com>

DISCLAIMER:

Final Product/Process Change Notification (FPCN) - Final Notification completing the notification process. Distributed at least 60 days from the effective date 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 your local ON Semiconductor Sales Office.

DESCRIPTION AND PURPOSE:

This is the first of three FPCNs that will be issued to complete the changes stated in IPCN #12106 - Initial Notification for Primarion to Phenitec Wafer Fab Transfer.

This notification applies only to the N Channel JFET Family. The specific device list is included below.

In order to continue to fully support our customer's requirements for N-Channel JFET, 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.

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RELIABILITY DATA SUMMARY:

*Qual vehicle lis Qual Vehicle	t Technology	Reason Chosen		
MMBFJ310LT1	N-ch JFET	Large die(18X17 mils), medium voltage(25V), Most complex, historical data,		
Qual Plan: TEST	CONDITIONS	INTERVAL	SIZE	FAILURES
Autoclave	Ta=121DegC , RH=100% P=15 psig,		336 336	0/336 0/336
Temperature Cycle	Ta=65/+150DegC, Air to Air, Dwell equal to or greater than 15 Min., ransfer equal to or less than	0 500 1000 10 Min.	336 336 336	0/336 0/336 0/336
IOL	Ton=2 min, Toff=2min, Ta=25 DegC	7500 cycles 15000 cycles	336 336	0/336 0/336
External Visual	Equal to or greater than Mid-Std-750, Metho	N/M od 2071	100%	
D.P.A	Random sample of good Temp Cycle and H3TRB devices per CDF-AEC-Q10	N/M 01-004 Section	6	Passed
Die Bond (Die Shear)	In-process assembly	N/M	45	Passed
Wire Bond (Pull)	In-process assembly	N/M	45	Passed
Bond Strength, Ball Shear	In-process assembly	N/M	45	Passed
High Humidity High Temp. Reverse Bias	Ta=+85DegC, RH=85%	0 504 1008	336 336 336	0/336 0/336 0/336
High Temp. Reverse Bias	Ta=+150DegC	0 504 1008	336 336 336	0/336 0/336 0/336
Electro Static Discharge	Human Body Model & Machine Models 1 & 2	N/M	42	Class 1C Class A

ELECTRICAL CHARACTERISTIC SUMMARY: Data Available Upon Request.

CHANGED PART IDENTIFICATION: Not Applicable

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AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

2N3819

2N5457

2N5458

2N5485

2N5486

2N5486RLRP

2N5555

2N5638RLRA

2N5639

2N5639RLRA

BF245A

BF245B

BF256A

BFR30LT1

BFR31LT1

BSR58LT1

J110

J110RLRA

J111RL1

J111RLRA

J111RLRP

J112

J112RL1

J112RLRA

J309

J310

J310RLRP

J310ZL1

MMBF4391LT1

MMBF4392LT1

MMBF4393LT1

MMBF4416LT1

MMBF5457LT1

MMBF5484LT1

MMBFJ309LT1

MMBFJ310LT1

MMBFJ310LT3

MMBFU310LT1

MPF102

MPF4392

MPF4393

MPF4393RLRP

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