



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
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25-APR-2003

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #12868

TITLE: Initial Notification for Design Change on Bipolar Power Products

EFFECTIVE DATE: 25-Aug-2003

AFFECTED CHANGE CATEGORY: Design Change

AFFECTED PRODUCT DIVISION: Bipolar Discretes Products Div

ADDITIONAL RELIABILITY DATA: Available

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

SAMPLES: Contact your local ON Semiconductor Sales Representative or Dianne Von Borstel <RPDR20@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact Sales Representative or Jose Ramirez <RVEG40@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 60 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

This is an initial notification. ON Semiconductor wishes to notify its Customers that some Bipolar Power Transistors will be subject to a die design change using Perforated Emitter Technology. Parametric specifications will not change. The complete die redesign project is anticipated to be completed in several phases over the next 12 months and a Final PCN with specific devices will be issued for each phase.

ON Semiconductor continues to make substantial investments in both new technologies and improved manufacturing capabilities to provide you the highest quality and reliability in the Semiconductor industry.



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**QUALIFICATION PLAN:
Per AEC-Q101 Guidelines**

TEST	TEST CONDITIONS	Interval
H3TRB	Ta = 85C /85%RH, V=80% of max V	1008 hrs
HTRB	Ta = 150C, 90degC, V=80% of max V	1008 hrs
IOL	Ta = +25C, delta Tj=100C Max Tj=175C, Ton/off 3.5 min	15000 cycles
TC	Temp = -65C to +150C;	1000 cycles
Autoclave	121C/100% RH/15 PSIG	96 hrs

Electrostatic Discharge per JEDEC

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

2C3773WP, 2N3055A, 2N3055H, 2N3442, 2N3771, 2N3772, 2N3773, 2N4918, 2N4919, 2N4920, 2N4921, 2N4922, 2N4923, 2N5190, 2N5191, 2N5192, 2N5194, 2N5195, 2N5302, 2N5631, 2N5655, 2N5657, 2N5684, 2N5686, 2N5883, 2N5884, 2N5885, 2N5886, 2N6031, 2N6034, 2N6035, 2N6036, 2N6038, 2N6039, 2N6040, 2N6042, 2N6043, 2N6045, 2N6052, 2N6107, 2N6109, 2N6111, 2N6282, 2N6284, 2N6286, 2N6287, 2N6288, 2N6292, 2N6387, 2N6388, 2N6487, 2N6488, 2N6490, 2N6491, 2N6667, 2N6668, BD135, BD136, BD137, BD138, BD139, BD140, BD159, BD179, BD180, BD234, BD237, BD238, BD241C, BD242B, BD242C, BD243B, BD243C, BD244B, BD244C, BD435, BD436, BD436T, BD437, BD437T, BD438, BD439, BD440, BD441, BD442, BD675, BD675A, BD676, BD676A, BD677, BD677A, BD678, BD678A, BD679, BD679A, BD680, BD680A, BD681, BD682, BD682T, BD787, BD788, BD809, BD810, BDW42, BDW46, BDW47, BDX33B, BDX33C, BDX34B, BDX34C, BDX53B, BDX53C, BDX54B, BDX54C, BU406, BU407, BUV26, BUV27, D44H11, D44H8, D44VH10, D45H11, D45H8, D45VH10, MJ11012, MJ11015, MJ11016, MJ11021, MJ11022, MJ11028, MJ11029, MJ11030, MJ11032, MJ11033, MJ14001, MJ14002, MJ14003, MJ15001, MJ15002, MJ15015, MJ15016, MJ4502, MJ802, MJB42C, MJB42CT4, MJB44H11, MJB44H11T4, MJB45H11, MJB45H11T4, MJC11021WP, MJC11022WP, MJD112, MJD112-001, MJD112RL, MJD112T4, MJD117, MJD117-001, MJD117T4, MJD122, MJD122T4, MJD127, MJD127T4, MJD128T4, MJD148T4, MJD200, MJD200RL, MJD200T4, MJD210, MJD210RL, MJD210T4, MJD243, MJD243T4, MJD253-001, MJD253T4, MJD2955, MJD2955-001, MJD2955T4, MJD3055, MJD3055T4, MJD31C, MJD31C1, MJD31CRL, MJD31CT4, MJD31T4, MJD32C, MJD32C1, MJD32CRL, MJD32CT4, MJD32RL, MJD32T4, MJD340, MJD340RL, MJD340T4, MJD350, MJD350T4, MJD41CRL, MJD41CT4, MJD42C, MJD42C1, MJD42CRL, MJD42CT4, MJD44H11, MJD44H11-001, MJD44H11RL, MJD44H11T4, MJD44H11T5, MJD45H11, MJD45H11-001, MJD45H11RL, MJD45H11T4, MJD6039T4, MJE15028, MJE15029, MJE15030, MJE15031, MJE15032, MJE15033, MJE170, MJE171, MJE172, MJE180, MJE181, MJE182, MJE200, MJE210, MJE210T, MJE243, MJE253, MJE2955T, MJE3055T, MJE340, MJE3439, MJE344, MJE350, MJE371, MJE4353, MJE521, MJE700, MJE702, MJE703, MJE800, MJE802, MJE803, MJEC15030WP, MJEC15031WP, MJEC340WP, MJEC350WP, MJEC44H11WP, MJF122, MJF127, MJF15030, MJF15031, MJF2955, MJF3055, MJF31C, MJF32C, MJF44H11, MJF45H11, MJF6388, MJF6668, MJH11017, MJH11018, MJH11019, MJH11020, MJH11021, MJH11022, MJH6284, MJH6287, MMJT350T1, SJB42C, SJB42CT4, SJD112T4, SJD117T4, SJD127T4, SJD31CT4, SJD32C, SJD32C1, SJD32CRL, SJD32CT4, SJD4080RL, SJD44H11, SJD44H11-001, SJD44H11RL, SJD44H11T4, SJD45H11, SJD45H11-001, SJD45H11RL, SJD45H11T4, SJE2894, SJE4021, SJE5384, TIP100, TIP101, TIP102, TIP105, TIP106, TIP107,



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TIP110, TIP111, TIP112, TIP115, TIP116, TIP117, TIP120, TIP121, TIP122, TIP125, TIP126, TIP127, TIP29, TIP29A, TIP29B, TIP29C, TIP30, TIP30A, TIP30B, TIP30C, TIP31, TIP31A, TIP31B, TIP31C, TIP32, TIP32A, TIP32B, TIP32C, TIP36A, TIP36C, TIP41, TIP41A, TIP41B, TIP41C, TIP42, TIP42A, TIP42B, TIP42C