

ON Semiconductor



Subject: ON Semiconductor PRODUCT/PROCESS CHANGE NOTIFICATION 10148

TITLE: HYSOL MOLDING COMPOUND AND AFW(AMERICAN FINE WIRE) CHANGE

EFFECTIVE DATE: 25-JUN-00

AFFECTED CHANGE CATEGORIES

Assembly Process

AFFECTED PRODUCT DIVISIONS

BIPOLAR DISCRETES PRODUCTS DIV

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office.

Ref: R23125

SAMPLES: Contact Below
Contact your local ON Semiconductor Sales Office.

Ref: RSMP666

For any questions concerning this notification:

REFERENCE:JAKE LEE PHONE: 602-244-3453

DISCLAIMER:

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.

GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

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ISSUE DATE: 17-Mar-2000 NOTIFICATION #:10148
EFFECTIVE DATE: 25-Jun-2000 ISSUING DIVISION:ON SEMICONDUCTO

DESCRIPTION AND PURPOSE

SMP, an ON Semiconductor's QS9002 qualified joint-venture in Malaysia, wants to qualify second source suppliers for mold compound and bonding wire to ensure the smooth flow of production/delivery. ON Semiconductor does not anticipate any impact on quality or delivery to customers. This change may potentially apply to all of the devices in the following packages : SOT23, SC59, SC74, SC70, SC88, SC75.

QUALIFICATION PLAN

See Rel Data

RELIABILITY DATA SUMMARY

- 1. Qual vehicles:
MMBT3904LT1(NPN SOT23), SMQA5600T1(ZENER SC74),
MBD914DWT1(Switching diode, SC8),
MBD330DW1T1(Schottky diode SC88),
MSB710-RT1(PNP SC59)

2. Test results

test item	result
HTRB(@Ta=150 degC w/bias)	500 hours 0 reject
Temp Cycle(@-50~150 degC)	100 cycles 0 reject
Autoclave(15PSI, 121degC, RH=100%)	168 hours 0 reject
IOL(Tj=100degC, Ta=25degC)	500 hours 0 reject
H3RB(Ta=85degC, RH=85%, 100% rated bias or 100Vdc whichever is greater)	500 hours 0 reject

3. 1000 hour rel data will be available by ww13.

ELECTRICAL CHARACTERISTIC SUMMARY

Electrical characterization indicates parametric distribution remains unchanged, and ON Semiconductor does not anticipate significant change.

CHANGED PART IDENTIFICATION

N/A

FILE FORMAT: ASCII TEXT

FONT - Courier
SIZE - 12 Point
LINE - 70 characters/line
PAGE - 55 lines/page
PAGEBREAK CHARACTER - ^L (Control L)

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AFFECTED DEVICE LIST (WITHOUT SPECIALS)

2N7002LT1 , 2N7002LT3 , 2SA1774 , BAL99LT1
BAS116LT1 , BAS16LT1 , BAS16LT3 , BAS16WT1
BAS19LT1 , BAS20LT1 , BAS21LT1 , BAS21LT3
BAS40LT1 , BAS70LT1 , BAT54LT1 , BAT54SWT1
BAT54WT1 , BAV70LT1 , BAV70LT3 , BAV70WT1
BAV74LT1 , BAV74LT3 , BAV99RWT1 , BAV99WT1
BAW56LT1 , BAW56LT3 , BAW56WT1 , BC807-16LT1
BC807-16LT3 , BC807-25LT1 , BC807-25LT3 , BC807-40LT1
BC807-40LT3 , BC808-25LT1 , BC808-40LT1 , BC817-16LT1
BC817-16LT3 , BC817-25LT1 , BC817-25LT3 , BC817-40LT1
BC817-40LT3 , BC818-40LT1 , BC846ALT1 , BC846ALT3
BC846AWT1 , BC846BDW1T1 , BC846BLT1 , BC846BLT3
BC846BPDW1T1 , BC846BWT1 , BC847ALT1 , BC847AWT1
BC847BDW1T1 , BC847BLT1 , BC847BLT3 , BC847BPDW1T1
BC847BWT1 , BC847CDW1T1 , BC847CLT1 , BC847CLT3
BC847CPDW1T1 , BC847CWT1 , BC848ALT1 , BC848AWT1
BC848BDW1T1 , BC848BLT1 , BC848BLT3 , BC848BPDW1T1
BC848BWT1 , BC848CDW1T1 , BC848CLT1 , BC848CPDW1T1
BC848CWT1 , BC849BLT1 , BC849CLT1 , BC850BLT1
BC850CLT1 , BC856ALT1 , BC856ALT3 , BC856BDW1T1
BC856BLT1 , BC856BLT3 , BC856BWT1 , BC857ALT1
BC857BDW1T1 , BC857BLT1 , BC857BLT3 , BC857BWT1
BC857CDW1T1 , BC857CWT1 , BC858ALT1 , BC858AWT1
BC858BDW1T1 , BC858BLT1 , BC858BLT3 , BC858BWT1
BC858CDW1T1 , BC858CLT1 , BC858CLT3 , BC859BLT1
BC859CLT1 , BCW30LT1 , BCW30LT3 , BCW32LT1
BCW33LT1 , BCW33LT3 , BCW65ALT1 , BCW65CLT1
BCW66GLT1 , BCW68GLT1 , BCW70LT1 , BCW72LT1
BCX17LT1 , BCX17LT3 , BCX18LT1 , BCX19LT1
BCX71JLT1 , BFR30LT1 , BFR31LT1 , BSR58LT1
BSS123LT1 , BSS123LT3 , BSS138LT1 , BSS138LT3
BSS63LT1 , BSS64LT1 , BSS79CLT1 , BSS84LT1
BSV52LT1 , BZX84C10LT1 , BZX84C10LT3 , BZX84C11LT1
BZX84C11LT3 , BZX84C12LT1 , BZX84C12LT3 , BZX84C13LT1
BZX84C13LT3 , BZX84C15LT1 , BZX84C15LT3 , BZX84C16LT1
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BZX84C22LT1 , BZX84C24LT1 , BZX84C24LT3 , BZX84C27LT1
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BZX84C5V6LT1 , BZX84C5V6LT3 , BZX84C62LT1 , BZX84C62LT3
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BZX84C6V8LT1 , BZX84C6V8LT3 , BZX84C75LT1 , BZX84C75LT3
BZX84C7V5LT1 , BZX84C7V5LT3 , BZX84C8V2LT1 , BZX84C8V2LT3
BZX84C9V1LT1 , BZX84C9V1LT3 , DAN222 , DAP202U
DAP222 , DTA114GE , DTA114YE , DTA143EE
DTC114TE , DTC114YE , LMMBA812M7LT1 , LMMBV432LT1
M1MA141KT1 , M1MA141WAT1 , M1MA141WAT3 , M1MA141WKT1

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M1MA141WKT3	, M1MA142KT1	, M1MA142WAT1	, M1MA142WAT3
M1MA142WKT1	, M1MA142WKT3	, M1MA151AT1	, M1MA151KT1
M1MA151KT2	, M1MA151WAT1	, M1MA151WAT2	, M1MA151WKT1
M1MA151WKT2	, M1MA152AT1	, M1MA152KT1	, M1MA152WAT1
M1MA152WKT1	, M1MA174T1	, MBD110DWT1	, MBD330DWT1
MBD54DWT1	, MBD770DWT1	, MBT3904DW1T1	, MBT3904DW1T3
MBT3904DW9T1	, MBT3904DW9T3	, MBT3946DW1T1	, MDC3105LT1
MDC3237T1	, MDC5001T1	, MMBC1321Q4LT1	, MMBC1321Q5LT1
MMBD101LT1	, MMBD2835LT1	, MMBD2835LT3	, MMBD2836LT1
MMBD2837LT1	, MMBD2838LT1	, MMBD301LT1	, MMBD301LT3
MMBD330T1	, MMBD352WT1	, MMBD355LT1	, MMBD6050LT1
MMBD6050LT3	, MMBD6100LT1	, MMBD6100LT3	, MMBD701LT1
MMBD701LT3	, MMBD717LT1	, MMBD770T1	, MMBD914LT1
MMBD914LT3	, MMBF0201NLT1	, MMBF0202PLT1	, MMBF1374T1
MMBF170LT1	, MMBF170LT3	, MMBF2201NT1	, MMBF2202PT1
MMBF4391LT1	, MMBF4392LT1	, MMBF4393LT1	, MMBF4416LT1
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MMBT2222AWT1	, MMBT2222LT1	, MMBT2222LT3	, MMBT2369ALT1
MMBT2369ALT3	, MMBT2369LT1	, MMBT2484LT1	, MMBT2907ALT1
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MMBV2108LT1	, MMBV2109LT1	, MMBV3102LT1	, MMBV3401LT1
MMBV3401LT3	, MMBV3700LT1	, MMBV409LT1	, MMBV432LT1
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MMBZ5247BLT1	, MMBZ5247BLT3	, MMBZ5248BLT1	, MMBZ5248BLT3

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MMBZ5249BLT1	, MMBZ5250BLT1	, MMBZ5250BLT3	, MMBZ5251BLT1
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MMQA5V6T1	, MMQA6V2T1	, MMQA6V2T3	, MMQA6V8T1
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MMUN2115LT1	, MMUN2116LT1	, MMUN2130LT1	, MMUN2130LT3
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MRN1111TE85L	, MRN1402TE85R	, MRN1407TE85R	, MRN2102TE85L
MRN2103TE85L	, MRN2104TE85L	, MRN2111TE85L	, MRN2403TE85R
MRN2404TE85L	, MSA1162GT1	, MSA1162YT1	, MSB1218A-RT1
MSB710-RT1	, MSB710-RT2	, MSB92T1	, MSB92WT1
MSC2295-BT1	, MSC2295-BT2	, MSC2295-CT1	, MSC2295-CT2
MSC2712GT1	, MSC3130T1	, MSC3904T1	, MSC3930-BT1
MSD1010T1	, MSD1328-RT1	, MSD1328-ST1	, MSD1819A-RT1
MSD1819A-RT3	, MSD2714AT1	, MSD42T1	, MSD42WT1
MSD601-RT1	, MSD601-RT2	, MSD601-ST1	, MSD602-RT1
MSD602-RT2	, MUN2111T1	, MUN2111T3	, MUN2112T1
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MUN2115T1	, MUN2116T1	, MUN2130T1	, MUN2131T1
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MUN5235DW1T1	, MUN5311DW1T1	, MUN5312DW1T1	, MUN5312DW1T3
MUN5313DW1T1	, MUN5314DW1T1	, MUN5315DW1T1	, MUN5316DW1T1

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MUN5316DW1T2	,	MUN5330DW1T1	,	MUN5331DW1T1	,	MUN5332DW1T1
MUN5333DW1T1	,	MUN5334DW1T1	,	MUN5335DW1T1	,	SMBD1511LT3
SMBT1000LT1	,	SMBT1493LT1	,	SMBT1493LT3	,	SMBT1516LT3
SMBT5032LT1	,	SMF138LT1	,	SMF138LT3	,	SMQA1001T1
SMQA1002T1	,	TMBT0104LT1	,	XDAN222	,	XMBD54DWT1
XMBD914LT1						