

ON Semiconductor



Subject: ON Semiconductor UPDATE NOTIFICATION 10185

TITLE: UPDATE TO PCN#10105: MICRO 8 PACKAGE MATERIAL

EFFECTIVE DATE: 06-JUN-00

AFFECTED CHANGE CATEGORIES

AFFECTED PRODUCT DIVISIONS
ANALOG PRODUCTS DIV

ADDITIONAL RELIABILITY DATA: None

Ref:

SAMPLES: No

Ref:

For any questions concerning this notification:

REFERENCE: MOUAYED SALEH

PHONE: 602-244-3474

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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ISSUING DIVISION:ON SEMICONDUCTOR

DESCRIPTION AND PURPOSE

This Product Bulletin is a follow up to previously issued PCN #10105 on 12/22/99. This PB is to communicate the material used to qualify the micro 8 package at Seremban in Malaysia, which is different than what is used by Carsem. PCN #10105 incorrectly stated that the exact same material was used.

Material comparison used by Seremban and Carsem:

Material	Seremban	Carsem
Mold Compound	Nitto MP8000AN	Nitto MP7400f1
Die attach	Sumitomo CRM-1086T	Ablebond 84-IL
Wire	Tanaka 0.8 mil Alt. Tanaka 1.0 mil	Tanaka 1.0 mil
Lead Frame	No downset 0.005" thickness	Downset 0.006" thickness

There are no other changes on the subject PCN

LP2951CDM-5.0 Reliability data:

HTOL (145C)

	168 Hrs	504 Hrs	1008 Hrs
Lot A	0/78	0/78	0/78
Lot B	0/78	0/78	0/78
Lot C	0/78	0/78	0/78

Autoclave (121C, 100%RH, 15PSIG)

	48 Hrs	96 Hrs
Lot A	0/78	0/78
Lot B	0/78	0/78
Lot C	0/78	0/78

Temperature Cycling (-65C to +150C)

	100 Cycles	500 Cycles
Lot A	0/78	0/78
Lot B	0/78	0/78
Lot C	0/77	0/77

Moisture Sensitivity Level-1 Pre-Conditioning Plus Autoclave

	48 Hrs	96 Hrs
Lot A	0/78	0/78
Lot B	0/78	0/78
Lot C	0/78	0/78

Moisture Sensitivity Level-1 Pre-Conditioning Plus Temperature Cycling

	100 Cycles	500 Cycles
Lot A	0/78	0/78
Lot B	0/78	0/78
Lot C	0/78	0/78

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AFFECTED DEVICE LIST (WITHOUT SPECIALS)

LP2951ACDM-3.0R2 , LP2951ACDM-3.3R2 , LP2951ACDM-5.0R2 , LP2951ACDMR2
LP2951CDM-3.0R2 , LP2951CDM-3.3R2 , LP2951CDM-5.0R2 , LP2951CDMR2
MC33064DM-5R2 , MC33164DM-3R2 , MC33164DM-5R2 , MC33202DMR2
MC33264DM-2.8R2 , MC33264DM-3.0R2 , MC33264DM-3.3R2 , MC33264DM-3.8R2
MC33264DM-4.0R2 , MC33264DM-4.75R2 , MC33264DM-5.0R2 , MC33762DM-2525R2
MC33762DM-2828R2 , MC33762DM-3030R2 , MC34064DM-5R2 , MC34164DM-3R2
MC34164DM-5R2 , MDC5100R2 , MDC5101R2 , PC902106DMR2
SC2951ACDM-3.3R2 , SC2951ACDMR2 , SC902103DMR2 , TCM2951-3.0VUA
TCM2951-3.3VUA , TCM2951-5.0VUA , TL431BCDMR2 , TL431BIDMR2