

ON Semiconductor
Formerly a Division of Motorola



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4952

TITLE: SOD-123 SILVER STRIPE LEADFRAME ELIMINATION

EFFECTIVE DATE: 07-NOV-99

AFFECTED CHANGE CATEGORIES
Assembly Process

AFFECTED PRODUCT DIVISIONS
OPTO SIGNAL DIV POWER PRODUCTS DIV

ADDITIONAL RELIABILITY DATA: Available
Contact your local Motorola Sales Office.

Ref: RKU624

SAMPLES: Contact Below
Contact your local Motorola Sales Office.

Ref: RKU648@email.sps.mot.com

For any questions concerning this notification:

REFERENCE: JAKE LEE

PHONE: 602-244-3453

DISCLAIMER:

MOTOROLA 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 MOTOROLA SALES
OFFICE.

GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

PRODUCT AND PROCESS CHANGE NOTIFICATION

ISSUE DATE: 30-Jul-1999

NOTIFICATION #:4952

EFFECTIVE DATE: 07-Nov-1999

ISSUING DIVISION:PHX-OSPD

DESCRIPTION AND PURPOSE

The purpose of this change is to enhance simplicity and productivity in the manufacturing process. The silver stripe lead frame on SOD123 will be eliminated. The present process includes Alloy 42, and a copper-plated lead frame with a silver stripe. The new process will include Alloy 42, and a copper-plated lead frame without a silver stripe.

QUALIFICATION PLAN

Same as Rel Data

RELIABILITY DATA SUMMARY

RELIABILITY TESTS AND RESULTS:

Performed on Device: MMSD103T1, Product Line: XV383

TESTS	CONDITIONS	INTERVAL	SIZE	Rejects	
				CAT	LIM/DEL
Auto-clave	Ta=121DegC, P=15psig, RH=100%	96 hrs	231		0/0/0
		192 hrs	231		0/0/0
Temp Cycle	Ta=-65/150DegC, Air to Air, Dwell greater than or equal to 10 min.	500 cyc	231		0/0/0
		1000 cyc	231		0/0/0
Solder Heat	Ta=260DegC	1X	135		0/0/0
H3TRB	Ta=85DegC, RH=85% Bias: V = rated	500 hrs	231		0/0/0
		1000 hrs	231		0/0/0
IOL	Ton = 2 min, Toff = 2 min. Bias: Pd = rated	500 hrs	231		0/0/0
		1000 hrs	231		0/0/0

PRODUCT AND PROCESS CHANGE NOTIFICATION

ISSUE DATE: 30-Jul-1999

NOTIFICATION #:4952

EFFECTIVE DATE: 07-Nov-1999

ISSUING DIVISION:PHX-OSPD

Performed on Device: MBR0540T1, Product Line: RLS972

TESTS	CONDITIONS	INTERVAL	SIZE	Rejects CAT/LIM/DEL
Autoclave	Ta=121DegC, P=15psig, RH=100%	96 hrs 192 hrs	231 231	0/0/0 0/0/0
Temp Cycle	Ta=-65/150DegC Air to Air, Dwell greater than or equal to 10 min.	500 cyc 1000 cyc	231 231	0/0/0 0/0/0
Solder	Ta=260DegC	1X	135	0/0/0
H3TRB	Ta=85DegC, RH=85% Bias: V=rated	500 hrs 1000 hrs	231 231	0/0/0 0/0/0
IOL	Ton=2min, Toff=2min Bias: Pd=rated	500 hrs 1000 hrs	231 231	0/0/0 0/0/0

ELECTRICAL CHARACTERISTIC SUMMARY

Motorola anticipates no change in electrical characterization.

CHANGED PART IDENTIFICATION

The parts will be identified with Date Code "V" or later.

FILE FORMAT: ASCII TEXT

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

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

BA582T1 , BAT54T1 , MBR0520LT1 , MBR0520LT3
MBR0530T1 , MBR0530T3 , MBR0540T1 , MBR0540T3
MMSD103T1 , MMSD301T1 , MMSD4148T1 , MMSD701T1
MMSD71RKT1 , MMSD914T1 , MMSV3401T1