



Dear Valued Customer

Doc. No.: 40yy001
Issue date: March 1, 2023

Yasufumi Matsuoka
Division Manager

Discrete Production Division
AP Production Headquarters
ROHM Co., Ltd.

Notification of Product/Process Change

This is an announcement of change(s) to the process of the products currently supplied by ROHM Co., Ltd.

We request your acknowledgement of the receipt of this notification within the given period.

Please provide your your reply by March 31, 2024

Title of change	Additional approval request for PMDTM <SOD-128> production at China (Tianjin) factory		
Affected product(s)	Manufacturer part number		Customer part number
	PMDTM <SOD-128> package diode products (refer attached sheet)		
Detailed description of change	Now		After
	Production Factory (Assembly) : Japan, Malaysia		Production Factory (Assembly) : Japan, Malaysia, China (Tianjin)
Reason for change	ROHM will enhance its Business Continuity Management and respond to the increasing demand by introducing its China (Tianjin) factory as an additional site for the PMDTM <SOD-128> package production.		
Anticipated impact on quality	Same quality as made in Japan and Malaysia. (refer to the 4M document)		
Identification of change	Identifiable by the dot mark on the surface of the product.		
Planned first ship date :		May 6, 2023	Sample available schedule : Within 6 weeks from request
Attachments (data, report)		none 4M 4023001-2_4ME	R/bl 4023001-3_R/bl
Comments			

		Reply date	
Customer reply	☐ 1. Approved. ☐ 2. Accepted with conditions.		
Condition for approval / reason for rejection			
Comments			
Customer company name			
Customer signature		Department	
Customer signature		Department	



Electronics for the Future

Additional approval request for PMDTM 〈SOD-128〉 production at China (Tianjin) factory (Application No:4023002)

January 30th, 2023
AP production Headquarters
Discrete Production Division
Power Device Engineering Department

Overview



Overview

An additional production site for the PMDTM 〈SOD-128〉 package in China (Tianjin) will be introduced.

Background

ROHM will enhance its Business Continuity Management and respond to the increasing demand by introducing its China (Tianjin) factory as an additional site for the PMDTM 〈SOD-128〉 package production.

Products

PMDTM 〈SOD-128〉 package diode products manufactured by ROHM will be affected.
(For details, please refer to the attached document)

Changes

Item	Site of the assembly factory
Before	Japan (Okayama), Malaysia
After	Japan (Okayama), Malaysia, China (Tianjin)

Part Number

There will be no change in Part Number, we will use multi label management to distinguish the products by the ROHM internal Part Number.

5M Change point & Schedule



Changes in 5M

Package type	PMDTM (SOD-128)			Change point
Production plant	ROHM Wako Co.,Ltd.	ROHM-Wako Electronics (Malaysia) Sdn. Bhd.	ROHM Semiconductor (China) Co.,Ltd.	✓
Production site	Japan (Okayama)	Malaysia	China (Tianjin)	✓
Man	Local Staff (Internal licensing system certified operator)			✓
Material	ROHM will provide the wafers			NA
	Common Materials			NA
Machine	Existing equipment			NA
Method	Wide frame method			NA
Measurement	Program set by ROHM			NA

Schedule

	2022			2023											
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Set up machine															
Reliability test															
Application															
Sample															
Mass production															

Outline comparison



Package type	PMDTM 〈SOD-128〉		
Production plant	ROHM Wako Co.,Ltd.	ROHM-Wako Electronics (Malaysia) Sdn. Bhd.	ROHM Semiconductor (China) Co.,Ltd.
Production site	Japan (Okayama)	Malaysia	China (Tianjin)
Dimension	No change		
Footprint reference	No change		
Lead finish	No change Electro plating : Sn 100%		
Marking method	No change Scan laser marking:30dots.		
Internal structure	No change Non wire (Solder joint) type		
Molding compound	No change Halogen Free		
Internal chip	No changes		
Maximum absolute rating	No changes		
Electrical characteristic	No changes		

No change in product specifications.

Dimension and Footprint

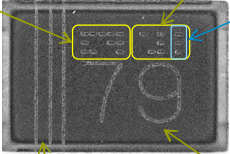
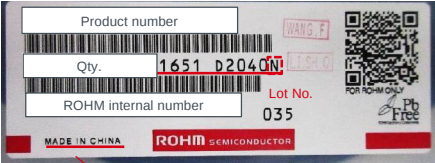


Package type	PMDTM (SOD-128)		
Production plant	ROHM Wako Co.,Ltd.	ROHM-Wako Electronics (Malaysia) Sdn. Bhd.	ROHM Semiconductor (China) Co.,Ltd.
Production site	Japan (Okayama)	Malaysia	China (Tianjin)
Dimensions	No Change Unit:mm		
Footprint reference	No Change Unit:mm		

No change in external dimensions and footprint reference.

Marking & Label



Package type	PMDTM (SOD-128)		
Production plant	ROHM Wako Co.,Ltd.	ROHM-Wako Electronics (Malaysia) Sdn. Bhd.	ROHM Semiconductor (China) Co.,Ltd.
Production site	Japan (Okayama)	Malaysia	China (Tianjin)
Marking	Dotted mark of production year, month, day of the week and factory. LOT No. Factory identification is possible from the Lot No. dot mark.  Cathode band Product Identification Code ROHM WAKO CO.,LTD ROHM-WAKO ELECTRONICS (MALAYSIA)SDN.BHD. ROHM SEMICONDUCTOR (CHINA)CO.,LTD (WAKO)		
Label (LOT No.)	 Country of Origin The production factory can be identified by the last digit of the Lot No.. (1) W : Japan D : Malaysia N : China		



Electronics for the Future

ROHM Co.,Ltd. © ROHM Co., Ltd.

PN	Internal PN	Public (External) PN
PDZVTFTR10A	PDZVTFTRN910A	PDZVTFTR10A
PDZVTFTR10B	PDZVTFTRN910B	PDZVTFTR10B
PDZVTFTR11A	PDZVTFTRN911A	PDZVTFTR11A
PDZVTFTR11B	PDZVTFTRN911B	PDZVTFTR11B
PDZVTFTR12A	PDZVTFTRN912A	PDZVTFTR12A
PDZVTFTR12B	PDZVTFTRN912B	PDZVTFTR12B
PDZVTFTR13A	PDZVTFTRN913A	PDZVTFTR13A
PDZVTFTR13B	PDZVTFTRN913B	PDZVTFTR13B
PDZVTFTR15A	PDZVTFTRN915A	PDZVTFTR15A
PDZVTFTR15B	PDZVTFTRN915B	PDZVTFTR15B
PDZVTFTR16A	PDZVTFTRN916A	PDZVTFTR16A
PDZVTFTR16B	PDZVTFTRN916B	PDZVTFTR16B
PDZVTFTR18A	PDZVTFTRN918A	PDZVTFTR18A
PDZVTFTR18B	PDZVTFTRN918B	PDZVTFTR18B
PDZVTFTR2.0A	PDZVTFTRN92.0A	PDZVTFTR2.0A
PDZVTFTR2.0B	PDZVTFTRN92.0B	PDZVTFTR2.0B
PDZVTFTR2.2A	PDZVTFTRN92.2A	PDZVTFTR2.2A
PDZVTFTR2.2B	PDZVTFTRN92.2B	PDZVTFTR2.2B
PDZVTFTR2.4A	PDZVTFTRN92.4A	PDZVTFTR2.4A
PDZVTFTR2.4B	PDZVTFTRN92.4B	PDZVTFTR2.4B
PDZVTFTR2.7A	PDZVTFTRN92.7A	PDZVTFTR2.7A
PDZVTFTR2.7B	PDZVTFTRN92.7B	PDZVTFTR2.7B
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PDZVTFTR20B	PDZVTFTRN920B	PDZVTFTR20B
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PDZVTFTR22B	PDZVTFTRN922B	PDZVTFTR22B
PDZVTFTR24A	PDZVTFTRN924A	PDZVTFTR24A
PDZVTFTR24B	PDZVTFTRN924B	PDZVTFTR24B
PDZVTFTR27A	PDZVTFTRN927A	PDZVTFTR27A
PDZVTFTR27B	PDZVTFTRN927B	PDZVTFTR27B
PDZVTFTR3.0A	PDZVTFTRN93.0A	PDZVTFTR3.0A
PDZVTFTR3.0B	PDZVTFTRN93.0B	PDZVTFTR3.0B
PDZVTFTR3.3A	PDZVTFTRN93.3A	PDZVTFTR3.3A
PDZVTFTR3.3B	PDZVTFTRN93.3B	PDZVTFTR3.3B
PDZVTFTR3.6A	PDZVTFTRN93.6A	PDZVTFTR3.6A
PDZVTFTR3.6B	PDZVTFTRN93.6B	PDZVTFTR3.6B
PDZVTFTR3.9A	PDZVTFTRN93.9A	PDZVTFTR3.9A
PDZVTFTR3.9B	PDZVTFTRN93.9B	PDZVTFTR3.9B
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PDZVTFTR30B	PDZVTFTRN930B	PDZVTFTR30B
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PDZVTFTR33B	PDZVTFTRN933B	PDZVTFTR33B
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PDZVTFTR36B	PDZVTFTRN936B	PDZVTFTR36B
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PDZVTFTR4.3A	PDZVTFTRN94.3A	PDZVTFTR4.3A
PDZVTFTR4.3B	PDZVTFTRN94.3B	PDZVTFTR4.3B
PDZVTFTR4.7A	PDZVTFTRN94.7A	PDZVTFTR4.7A
PDZVTFTR4.7B	PDZVTFTRN94.7B	PDZVTFTR4.7B
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PDZVTFTR5.1A	PDZVTFTRN95.1A	PDZVTFTR5.1A
PDZVTFTR5.1B	PDZVTFTRN95.1B	PDZVTFTR5.1B
PDZVTFTR5.6A	PDZVTFTRN95.6A	PDZVTFTR5.6A
PDZVTFTR5.6B	PDZVTFTRN95.6B	PDZVTFTR5.6B
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PDZVTFTR6.8B	PDZVTFTRN96.8B	PDZVTFTR6.8B
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PMZTR5.6B	PMZTRN95.6B	PMZTR5.6B
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RB080LAM-30TFTR	RB080LAM-30TFTRN9	RB080LAM-30TFTR
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RBR1LAM60A9SATR	RBR1LAM60ATFTRNS	RBR1LAM60ATFTR
RBR1LAM60A8SATR	RBR1LAM60ATRNS	RBR1LAM60ATR
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RBR2LAM40A9SATR	RBR2LAM40ATFTRNS	RBR2LAM40ATFTR
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RBR3LAM30A9SATR	RBR3LAM30ATFTRNS	RBR3LAM30ATFTR
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RBR3LAM40A8SATR	RBR3LAM40ATRNS	RBR3LAM40ATR
RBR3LAM40B9SATR	RBR3LAM40BTfTRNS	RBR3LAM40BTfTR
RBR3LAM40B8SATR	RBR3LAM40BTRNS	RBR3LAM40BTR
RBR3LAM40C9SATR	RBR3LAM40CTfTRNS	RBR3LAM40CTfTR

RBR3LAM40C8SATR	RBR3LAM40CTRNS	RBR3LAM40CTR
RBR3LAM60A9SATR	RBR3LAM60ATFTRNS	RBR3LAM60ATFTR
RBR3LAM60A8SATR	RBR3LAM60ATRNS	RBR3LAM60ATR
RBR3LAM60B9SATR	RBR3LAM60BTfTRNS	RBR3LAM60BTfTR
RBR3LAM60B8SATR	RBR3LAM60BTRNS	RBR3LAM60BTR
RBR5LAM30A9SATR	RBR5LAM30ATFTRNS	RBR5LAM30ATFTR
RBR5LAM30A8SATR	RBR5LAM30ATRNS	RBR5LAM30ATR
RBR5LAM30B9SATR	RBR5LAM30BTfTRNS	RBR5LAM30BTfTR
RBR5LAM30B8SATR	RBR5LAM30BTRNS	RBR5LAM30BTR
RBR5LAM40A9SATR	RBR5LAM40ATFTRNS	RBR5LAM40ATFTR
RBR5LAM40A8SATR	RBR5LAM40ATRNS	RBR5LAM40ATR
RBR5LAM60A9SATR	RBR5LAM60ATFTRNS	RBR5LAM60ATFTR
RBR5LAM60A8SATR	RBR5LAM60ATRNS	RBR5LAM60ATR
RBS1LAM40A8SATR	RBS1LAM40ATRNS	RBS1LAM40ATR
RBS2LAM40A8SATR	RBS2LAM40ATRNS	RBS2LAM40ATR
RBS2LAM40B8SATR	RBS2LAM40BTRNS	RBS2LAM40BTR
RBS2LAM40C8SATR	RBS2LAM40CTRNS	RBS2LAM40CTR
RBS3LAM40A8SATR	RBS3LAM40ATRNS	RBS3LAM40ATR
RBS3LAM40B8SATR	RBS3LAM40BTRNS	RBS3LAM40BTR
RBS3LAM40C8SATR	RBS3LAM40CTRNS	RBS3LAM40CTR
RBS5LAM40A8SATR	RBS5LAM40ATRNS	RBS5LAM40ATR
RF071LAM4STFTR	RF071LAM4STfTRN9	RF071LAM4STFTR
RF071LAM4STR	RF071LAM4STRN9	RF071LAM4STR
RF081LAM2STFTR	RF081LAM2STfTRN9	RF081LAM2STFTR
RF081LAM2STR	RF081LAM2STRN9	RF081LAM2STR
RF101LAM2STFTR	RF101LAM2STfTRN9	RF101LAM2STFTR
RF101LAM2STR	RF101LAM2STRN9	RF101LAM2STR
RF101LAM4STFTR	RF101LAM4STfTRN9	RF101LAM4STFTR
RF101LAM4STR	RF101LAM4STRN9	RF101LAM4STR
RF201LAM2STFTR	RF201LAM2STfTRN9	RF201LAM2STFTR
RF201LAM2STR	RF201LAM2STRN9	RF201LAM2STR
RF201LAM4STFTR	RF201LAM4STfTRN9	RF201LAM4STFTR
RF201LAM4STR	RF201LAM4STRN9	RF201LAM4STR
RF202LAM2STFTR	RF202LAM2STfTRN9	RF202LAM2STFTR
RF202LAM2STR	RF202LAM2STRN9	RF202LAM2STR
RF2LAM2STFTR	RF2LAM2STfTRN9	RF2LAM2STFTR
RF302LAM2STFTR	RF302LAM2STfTRN9	RF302LAM2STFTR
RF302LAM2STR	RF302LAM2STRN9	RF302LAM2STR
RF3LAM2STFTR	RF3LAM2STfTRN9	RF3LAM2STFTR
RFN1LAM6STFTR	RFN1LAM6STfTRN9	RFN1LAM6STFTR
RFN1LAM6STR	RFN1LAM6STRN9	RFN1LAM6STR
RFN1LAM7STFTR	RFN1LAM7STfTRN9	RFN1LAM7STFTR
RFN1LAM7STR	RFN1LAM7STRN9	RFN1LAM7STR
RFN2LAM4STFTR	RFN2LAM4STfTRN9	RFN2LAM4STFTR
RFN2LAM4STR	RFN2LAM4STRN9	RFN2LAM4STR
RFN2LAM6STFTR	RFN2LAM6STfTRN9	RFN2LAM6STFTR
RFN2LAM6STR	RFN2LAM6STRN9	RFN2LAM6STR
RFNL3LAM6STR	RFNL3LAM6STRN9	RFNL3LAM6STR
RR1LAM4SRHATR	RR1LAM4SRHATRn9	RR1LAM4SRHATR
RR1LAM4SRNATR	RR1LAM4SRNATRn9	RR1LAM4SRNATR
RR1LAM4STFTR	RR1LAM4STfTRN9	RR1LAM4STFTR
RR1LAM4STR	RR1LAM4STRN9	RR1LAM4STR
RR1LAM6SRHATR	RR1LAM6SRHATRn9	RR1LAM6SRHATR
RR1LAM6SRNATR	RR1LAM6SRNATRn9	RR1LAM6SRNATR
RR1LAM6STFTR	RR1LAM6STfTRN9	RR1LAM6STFTR
RR1LAM6STR	RR1LAM6STRN9	RR1LAM6STR
RR2LAM4SRHATR	RR2LAM4SRHATRn9	RR2LAM4SRHATR

RR2LAM4SRNATR	RR2LAM4SRNATRN9	RR2LAM4SRNATR
RR2LAM4STFTR	RR2LAM4STFTRN9	RR2LAM4STFTR
RR2LAM4STR	RR2LAM4STRN9	RR2LAM4STR
RR2LAM6SRHATR	RR2LAM6SRHATRN9	RR2LAM6SRHATR
RR2LAM6SRNATR	RR2LAM6SRNATRN9	RR2LAM6SRNATR
RR2LAM6STFTR	RR2LAM6STFTRN9	RR2LAM6STFTR
RR2LAM6STR	RR2LAM6STRN9	RR2LAM6STR
RRU1LAM4SRHATR	RRU1LAM4SRHATRN9	RRU1LAM4SRHATR
RRU1LAM4SRNATR	RRU1LAM4SRNATRN9	RRU1LAM4SRNATR
RRU1LAM4STFTR	RRU1LAM4STFTRN9	RRU1LAM4STFTR
RRU1LAM4STR	RRU1LAM4STRN9	RRU1LAM4STR
RSA12LAMTR	RSA12LAMTRN9	RSA12LAMTR
RSA5LAMTR	RSA5LAMTRN9	RSA5LAMTR
RSX048LAM2STFTR	RSX048LAM2STFTRN9	RSX048LAM2STFTR
RSX048LAM2STR	RSX048LAM2STRN9	RSX048LAM2STR
RSX058LAM2STFTR	RSX058LAM2STFTRN9	RSX058LAM2STFTR
RSX058LAM2STR	RSX058LAM2STRN9	RSX058LAM2STR
RSX088LAM2STFTR	RSX088LAM2STFTRN9	RSX088LAM2STFTR
RSX088LAM2STR	RSX088LAM2STRN9	RSX088LAM2STR
RSX201LAM30TFTR	RSX201LAM30TFTRN9	RSX201LAM30TFTR
RSX201LAM30TR	RSX201LAM30TRN9	RSX201LAM30TR
RSX205LAM30TFTR	RSX205LAM30TFTRN9	RSX205LAM30TFTR
RSX205LAM30TR	RSX205LAM30TRN9	RSX205LAM30TR
RSX301LAM30TFTR	RSX301LAM30TFTRN9	RSX301LAM30TFTR
RSX301LAM30TR	RSX301LAM30TRN9	RSX301LAM30TR
RSX501LAM20TFTR	RSX501LAM20TFTRN9	RSX501LAM20TFTR
RSX501LAM20TR	RSX501LAM20TRN9	RSX501LAM20TR
VS10VUA1LAMTFTR	VS10VUA1LAMTFTRN9	VS10VUA1LAMTFTR
VS10VUA1LAMTR	VS10VUA1LAMTRN9	VS10VUA1LAMTR
VS11VUA1LAMTFTR	VS11VUA1LAMTFTRN9	VS11VUA1LAMTFTR
VS11VUA1LAMTR	VS11VUA1LAMTRN9	VS11VUA1LAMTR
VS12VUA1LAMTFTR	VS12VUA1LAMTFTRN9	VS12VUA1LAMTFTR
VS12VUA1LAMTR	VS12VUA1LAMTRN9	VS12VUA1LAMTR
VS13VUA1LAMTFTR	VS13VUA1LAMTFTRN9	VS13VUA1LAMTFTR
VS13VUA1LAMTR	VS13VUA1LAMTRN9	VS13VUA1LAMTR
VS14VUA1LAMTFTR	VS14VUA1LAMTFTRN9	VS14VUA1LAMTFTR
VS14VUA1LAMTR	VS14VUA1LAMTRN9	VS14VUA1LAMTR
VS15VUA1LAMTFTR	VS15VUA1LAMTFTRN9	VS15VUA1LAMTFTR
VS15VUA1LAMTR	VS15VUA1LAMTRN9	VS15VUA1LAMTR
VS16VUA1LAMTFTR	VS16VUA1LAMTFTRN9	VS16VUA1LAMTFTR
VS16VUA1LAMTR	VS16VUA1LAMTRN9	VS16VUA1LAMTR
VS17VUA1LAMTFTR	VS17VUA1LAMTFTRN9	VS17VUA1LAMTFTR
VS17VUA1LAMTR	VS17VUA1LAMTRN9	VS17VUA1LAMTR
VS18VUA1LAMTFTR	VS18VUA1LAMTFTRN9	VS18VUA1LAMTFTR
VS18VUA1LAMTR	VS18VUA1LAMTRN9	VS18VUA1LAMTR
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VS24VUA1LAMTFTR	VS24VUA1LAMTFTRN9	VS24VUA1LAMTFTR
VS24VUA1LAMTR	VS24VUA1LAMTRN9	VS24VUA1LAMTR
VS26VUA1LAMTFTR	VS26VUA1LAMTFTRN9	VS26VUA1LAMTFTR
VS26VUA1LAMTR	VS26VUA1LAMTRN9	VS26VUA1LAMTR
VS28VUA1LAMTFTR	VS28VUA1LAMTFTRN9	VS28VUA1LAMTFTR
VS28VUA1LAMTR	VS28VUA1LAMTRN9	VS28VUA1LAMTR
VS30VUA1LAMTFTR	VS30VUA1LAMTFTRN9	VS30VUA1LAMTFTR
VS30VUA1LAMTR	VS30VUA1LAMTRN9	VS30VUA1LAMTR

VS5V0U1LAMTR	VS5V0U1LAMTRN9	VS5V0U1LAMTR
VS5V0UA1LAMTFTR	VS5V0UA1LAMTFTRN9	VS5V0UA1LAMTFTR
VS5V0UA1LAMTR	VS5V0UA1LAMTRN9	VS5V0UA1LAMTR
VS6V0UA1LAMTFTR	VS6V0UA1LAMTFTRN9	VS6V0UA1LAMTFTR
VS6V0UA1LAMTR	VS6V0UA1LAMTRN9	VS6V0UA1LAMTR
VS7V0UA1LAMTFTR	VS7V0UA1LAMTFTRN9	VS7V0UA1LAMTFTR
VS7V0UA1LAMTR	VS7V0UA1LAMTRN9	VS7V0UA1LAMTR
VS8V0UA1LAMTFTR	VS8V0UA1LAMTFTRN9	VS8V0UA1LAMTFTR
VS8V0UA1LAMTR	VS8V0UA1LAMTRN9	VS8V0UA1LAMTR
VS9V0UA1LAMTFTR	VS9V0UA1LAMTFTRN9	VS9V0UA1LAMTFTR
VS9V0UA1LAMTR	VS9V0UA1LAMTRN9	VS9V0UA1LAMTR
PDZVLDTR11B	PDZVLDTRN911B	PDZVLDTR11B
PDZVLDTR18B	PDZVLDTRN918B	PDZVLDTR18B
RB050LAM-60LDTR	RB050LAM-60LDTRN9	RB050LAM-60LDTR
RB080LAM-30LDTR	RB080LAM-30LDTRN9	RB080LAM-30LDTR
RBR2LAM40ALDTR	RBR2LAM40ALDTRN9	RBR2LAM40ALDTR
RBR3LAM60BLDTR	RBR3LAM60BLDTRN9	RBR3LAM60BLDTR
RBR5LAM30BLDTR	RBR5LAM30BLDTRN9	RBR5LAM30BLDTR
RBR5LAM40ALDTR	RBR5LAM40ALDTRN9	RBR5LAM40ALDTR
RBR5LAM60ALDTR	RBR5LAM60ALDTRN9	RBR5LAM60ALDTR
RR1LAM4SLDTR	RR1LAM4SLDTRN9	RR1LAM4SLDTR
RR2LAM4SLDTR	RR2LAM4SLDTRN9	RR2LAM4SLDTR

4. Result of reliability test

Confidential
アクセス範囲：表紙記載



Conducting test type : PMDUM

※ Pretreatment : Baking (Oven_125°C×24h) ⇒Leaving at high temperature and humid (85°C×85%×168h) ⇒Reflow (Peak 250°C×3 times)

[Pn/n]

Test item		Test condition	Test time and result		
HTRB	High temperature bias	Ta=150°C、 VR=VR max	100h	240h	500h
			0/77	0/77	0/77
THB	High temperature and humid bias	Ta=85°C、Rh=85%、 VR=VR max	100h	240h	500h
			0/77	0/77	0/77
PCT	Pressure cooker	Ta=121°C、 Rh=100%、 2atm	100h	300h	500h
			0/77	0/77	0/77
TCY	Temperature cycle	−55°C(30min)~ +150°C(30min)	100cyc	300cyc	500cyc
			0/77	0/77	0/77