

From: Taiwo, Sam <sam.taiwo@uk.rohmeurope.com>

Sent: Thursday, March 16, 2023 9:27 AM

To: Pcn System <Pcn.System@FutureElectronics.com>

Subject: Withdraw and re-application of PCN at Power Diode - No.4023001 and 4023002 PCN to be replaced with No.4023003 and.4023003 PCN

Withdraw and re-application of PCN at Power Diode

Thank you for your cooperation in expanding sales and recommending power diode , and PCN/EOL activities.

Regarding of "No.4023001 Additional approval request for PMDTM 〈SOD-128〉 production at China (Tianjin) factory, there were P/N faults registered, so we have decided to withdraw it once and re-issue a revised version.

We sincerely apologize for any inconvenience.

There is no problem with the list of P/N, but there were P/N mistakes where some registered and some were not registered. (See the attached.) Therefore, we will withdraw the current application No. and resend a revised version.

We apologize for the inconvenience.

【Target P/N, and Not registered P/N in ROBIN】

See the attached:

- No.4023001 related PN list

【Withdrawal Number】

No.4023001 Additional approval request for PMDTM 〈SOD-128〉 production at China (Tianjin) factory

【Re-application Number】

No.4023003 Additional approval request for PMDTM 〈SOD-128〉 production at China (Tianjin) factory

【Schedule】

Withdrawn: March 16 on Thursday

Kind regards

Sam Taiwo
Distribution Manager UK
Distribution Sales

ROHM Semiconductor GmbH

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P/N in ROBIN		P/N registerd wrongly in ROBIN	
ROHM P/N (Now)	ROHM P/N (After)	Customer P/N	
RBR1LAM30A8SATR	RBR1LAM30ATRNS	RBR1LAM30ATR	
RBR1LAM30A9SATR	RBR1LAM30ATFTRNS	RBR1LAM30ATFTR	
RBR1LAM40A8SATR	RBR1LAM40ATRNS	RBR1LAM40ATR	
RBR1LAM40A9SATR	RBR1LAM40ATFTRNS	RBR1LAM40ATFTR	
RBR1LAM60A8SATR	RBR1LAM60ATRNS	RBR1LAM60ATR	
RBR1LAM60A9SATR	RBR1LAM60ATFTRNS	RBR1LAM60ATFTR	
RBR2LAM30A8SATR	RBR2LAM30ATRNS	RBR2LAM30ATR	
RBR2LAM30A9SATR	RBR2LAM30ATFTRNS	RBR2LAM30ATFTR	
RBR2LAM40A8SATR	RBR2LAM40ATRNS	RBR2LAM40ATR	
RBR2LAM40A9SATR	RBR2LAM40ATFTRNS	RBR2LAM40ATFTR	
RBR2LAM60A8SATR	RBR2LAM60ATRNS	RBR2LAM60ATR	
RBR2LAM60A9SATR	RBR2LAM60ATFTRNS	RBR2LAM60ATFTR	
RBR2LAM60B8SATR	RBR2LAM60BTRNS	RBR2LAM60BTR	
RBR2LAM60B9SATR	RBR2LAM60BTfTRNS	RBR2LAM60BTfTR	
RBR3LAM30A8SATR	RBR3LAM30ATRNS	RBR3LAM30ATR	
RBR3LAM30A9SATR	RBR3LAM30ATFTRNS	RBR3LAM30ATFTR	
RBR3LAM30B8SATR	RBR3LAM30BTRNS	RBR3LAM30BTR	
RBR3LAM30B9SATR	RBR3LAM30BTfTRNS	RBR3LAM30BTfTR	
RBR3LAM40A8SATR	RBR3LAM40ATRNS	RBR3LAM40ATR	
RBR3LAM40A9SATR	RBR3LAM40ATFTRNS	RBR3LAM40ATFTR	
RBR3LAM40B8SATR	RBR3LAM40BTRNS	RBR3LAM40BTR	
RBR3LAM40B9SATR	RBR3LAM40BTfTRNS	RBR3LAM40BTfTR	
RBR3LAM40C8SATR	RBR3LAM40CTRNS	RBR3LAM40CTR	
RBR3LAM40C9SATR	RBR3LAM40CTfTRNS	RBR3LAM40CTfTR	
RBR3LAM60A8SATR	RBR3LAM60ATRNS	RBR3LAM60ATR	
RBR3LAM60A9SATR	RBR3LAM60ATFTRNS	RBR3LAM60ATFTR	
RBR3LAM60B8SATR	RBR3LAM60BTRNS	RBR3LAM60BTR	
RBR3LAM60B9SATR	RBR3LAM60BTfTRNS	RBR3LAM60BTfTR	
RBR5LAM30A8SATR	RBR5LAM30ATRNS	RBR5LAM30ATR	
RBR5LAM30A9SATR	RBR5LAM30ATFTRNS	RBR5LAM30ATFTR	
RBR5LAM30B8SATR	RBR5LAM30BTRNS	RBR5LAM30BTR	
RBR5LAM30B9SATR	RBR5LAM30BTfTRNS	RBR5LAM30BTfTR	
RBR5LAM40A8SATR	RBR5LAM40ATRNS	RBR5LAM40ATR	
RBR5LAM40A9SATR	RBR5LAM40ATFTRNS	RBR5LAM40ATFTR	
RBR5LAM60A8SATR	RBR5LAM60ATRNS	RBR5LAM60ATR	
RBR5LAM60A9SATR	RBR5LAM60ATFTRNS	RBR5LAM60ATFTR	
RBS1LAM40A8SATR	RBS1LAM40ATRNS	RBS1LAM40ATR	
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RBS2LAM40B8SATR	RBS2LAM40BTRNS	RBS2LAM40BTR	
RBS2LAM40C8SATR	RBS2LAM40CTRNS	RBS2LAM40CTR	
RBS3LAM40A8SATR	RBS3LAM40ATRNS	RBS3LAM40ATR	
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RBS5LAM40A8SATR	RBS5LAM40ATRNS	RBS5LAM40ATR	
PDZVfTR10A	PDZVfTRN910A	PDZVfTR10A	
PDZVfTR10B	PDZVfTRN910B	PDZVfTR10B	
PDZVfTR11A	PDZVfTRN911A	PDZVfTR11A	
PDZVfTR11B	PDZVfTRN911B	PDZVfTR11B	
PDZVfTR12A	PDZVfTRN912A	PDZVfTR12A	
PDZVfTR12B	PDZVfTRN912B	PDZVfTR12B	
PDZVfTR13A	PDZVfTRN913A	PDZVfTR13A	
PDZVfTR13B	PDZVfTRN913B	PDZVfTR13B	
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PDZVfTR18B	PDZVfTRN918B	PDZVfTR18B	
PDZVfTR2.0A	PDZVfTRN92.0A	PDZVfTR2.0A	
PDZVfTR2.0B	PDZVfTRN92.0B	PDZVfTR2.0B	
PDZVfTR2.2A	PDZVfTRN92.2A	PDZVfTR2.2A	
PDZVfTR2.2B	PDZVfTRN92.2B	PDZVfTR2.2B	
PDZVfTR2.4A	PDZVfTRN92.4A	PDZVfTR2.4A	
PDZVfTR2.4B	PDZVfTRN92.4B	PDZVfTR2.4B	
PDZVfTR2.7A	PDZVfTRN92.7A	PDZVfTR2.7A	
PDZVfTR2.7B	PDZVfTRN92.7B	PDZVfTR2.7B	
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PDZVfTR24B	PDZVfTRN924B	PDZVfTR24B	
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PDZVfTR3.0B	PDZVfTRN93.0B	PDZVfTR3.0B	
PDZVfTR3.3A	PDZVfTRN93.3A	PDZVfTR3.3A	
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PDZVfTR5.1B	PDZVfTRN95.1B	PDZVfTR5.1B	
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PDZVfTR6.2A	PDZVfTRN96.2A	PDZVfTR6.2A	
PDZVfTR6.2B	PDZVfTRN96.2B	PDZVfTR6.2B	
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PDZVfTR6.8B	PDZVfTRN96.8B	PDZVfTR6.8B	
PDZVfTR7.5A	PDZVfTRN97.5A	PDZVfTR7.5A	
PDZVfTR7.5B	PDZVfTRN97.5B	PDZVfTR7.5B	
PDZVfTR8.2A	PDZVfTRN98.2A	PDZVfTR8.2A	
PDZVfTR8.2B	PDZVfTRN98.2B	PDZVfTR8.2B	
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PDZVfTR9.1B	PDZVfTRN99.1B	PDZVfTR9.1B	
PDZVTR10A	PDZVTRN910A	PDZVTR10A	
PDZVTR10B	PDZVTRN910B	PDZVTR10B	
PDZVTR11A	PDZVTRN911A	PDZVTR11A	
PDZVTR11B	PDZVTRN911B	PDZVTR11B	
PDZVTR12A	PDZVTRN912A	PDZVTR12A	
PDZVTR12B	PDZVTRN912B	PDZVTR12B	

Not registered P/N in ROBIN

ROHM P/N(Now)
RBR1LAM30A8SATR
RBR1LAM30A9SATR
RBR1LAM40A8SATR
RBR1LAM40A9SATR
RBR1LAM60A8SATR
RBR1LAM60A9SATR
RBR2LAM30A8SATR
RBR2LAM30A9SATR
RBR2LAM40A8SATR
RBR2LAM40A9SATR
RBR2LAM60A8SATR
RBR2LAM60A9SATR
RBR2LAM60B8SATR
RBR2LAM60B9SATR
RBR3LAM30A8SATR
RBR3LAM30A9SATR
RBR3LAM30B8SATR
RBR3LAM30B9SATR
RBR3LAM40A8SATR
RBR3LAM40A9SATR
RBR3LAM40B8SATR
RBR3LAM40B9SATR
RBR3LAM40C8SATR
RBR3LAM40C9SATR
RBR3LAM60A8SATR
RBR3LAM60A9SATR
RBR3LAM60B8SATR
RBR3LAM60B9SATR
RBR5LAM30A8SATR
RBR5LAM30A9SATR
RBR5LAM30B8SATR
RBR5LAM30B9SATR
RBR5LAM40A8SATR
RBR5LAM40A9SATR
RBR5LAM60A8SATR
RBR5LAM60A9SATR
RBS1LAM40A8SATR
RBS2LAM40A8SATR
RBS2LAM40B8SATR
RBS2LAM40C8SATR
RBS3LAM40A8SATR
RBS3LAM40B8SATR
RBS3LAM40C8SATR
RBS5LAM40A8SATR

 : P/N
 : NOT Resistered P/N in ROBIN

You should have registered ROHM P/N(now) in "Column A" in ROBIN, but you mistakenly registered ROHM P/N (After) "Column B" and Costomer's P/N in "Column C".
As a result, 44 P/N in "Column E" have been omitted from the target P/N on ROBIN.

No. 4023001 will be withdrawn and re-application.
When reapplying, ROHM P/N(now) "Column A" will be the target P/N for factory addition.
If you have already responded to No. 4023001 and the P/N "E column" is not eligible, you do not need to apply for additional application.

[illegible]

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



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	Rlbl	4023001-3_Rlbl
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

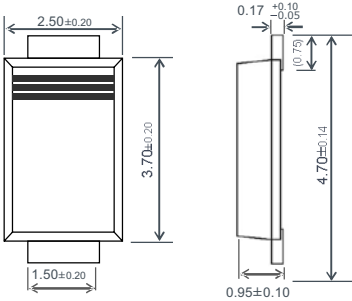
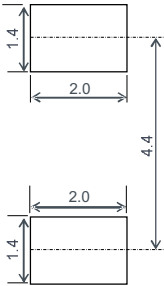


Package type	PMDTM 〈SOD-128〉		
Production plant	ROHM Wako Co.,Ltd.	ROHM-Wako Electronics (Malaysia) Sdn. Bhd.	ROHM Semiconductor (China) Co.,Ltd.
Production site	Japan (Okayama)	Malaysia	China (Tianjin)
Dimension	No change		
Footprint reference	No change		
Lead finish	No change Electro plating : Sn 100%		
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

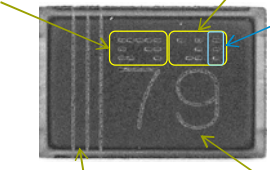


Package type	PMDTM (SOD-128)		
Production plant	ROHM Wako Co.,Ltd.	ROHM-Wako Electronics (Malaysia) Sdn. Bhd.	ROHM Semiconductor (China) Co.,Ltd.
Production site	Japan (Okayama)	Malaysia	China (Tianjin)
Dimensions	 No Change Unit:mm		
Footprint reference	 No Change Unit:mm		

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.. (0-9) 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
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PDZVTFTR13B	PDZVTFTRN913B	PDZVTFTR13B
PDZVTFTR15A	PDZVTFTRN915A	PDZVTFTR15A
PDZVTFTR15B	PDZVTFTRN915B	PDZVTFTR15B
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PDZVTFTR16B	PDZVTFTRN916B	PDZVTFTR16B
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PDZVTFTR18B	PDZVTFTRN918B	PDZVTFTR18B
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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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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
PDZVTFTR30A	PDZVTFTRN930A	PDZVTFTR30A
PDZVTFTR30B	PDZVTFTRN930B	PDZVTFTR30B
PDZVTFTR33A	PDZVTFTRN933A	PDZVTFTR33A
PDZVTFTR33B	PDZVTFTRN933B	PDZVTFTR33B
PDZVTFTR36A	PDZVTFTRN936A	PDZVTFTR36A
PDZVTFTR36B	PDZVTFTRN936B	PDZVTFTR36B
PDZVTFTR39A	PDZVTFTRN939A	PDZVTFTR39A
PDZVTFTR4.3A	PDZVTFTRN94.3A	PDZVTFTR4.3A
PDZVTFTR4.3B	PDZVTFTRN94.3B	PDZVTFTR4.3B
PDZVTFTR4.7A	PDZVTFTRN94.7A	PDZVTFTR4.7A
PDZVTFTR4.7B	PDZVTFTRN94.7B	PDZVTFTR4.7B
PDZVTFTR43A	PDZVTFTRN943A	PDZVTFTR43A
PDZVTFTR47A	PDZVTFTRN947A	PDZVTFTR47A
PDZVTFTR5.1A	PDZVTFTRN95.1A	PDZVTFTR5.1A
PDZVTFTR5.1B	PDZVTFTRN95.1B	PDZVTFTR5.1B
PDZVTFTR5.6A	PDZVTFTRN95.6A	PDZVTFTR5.6A
PDZVTFTR5.6B	PDZVTFTRN95.6B	PDZVTFTR5.6B
PDZVTFTR6.2A	PDZVTFTRN96.2A	PDZVTFTR6.2A

PDZVTFTR6.2B	PDZVTFTRN96.2B	PDZVTFTR6.2B
PDZVTFTR6.8A	PDZVTFTRN96.8A	PDZVTFTR6.8A
PDZVTFTR6.8B	PDZVTFTRN96.8B	PDZVTFTR6.8B
PDZVTFTR7.5A	PDZVTFTRN97.5A	PDZVTFTR7.5A
PDZVTFTR7.5B	PDZVTFTRN97.5B	PDZVTFTR7.5B
PDZVTFTR8.2A	PDZVTFTRN98.2A	PDZVTFTR8.2A
PDZVTFTR8.2B	PDZVTFTRN98.2B	PDZVTFTR8.2B
PDZVTFTR9.1A	PDZVTFTRN99.1A	PDZVTFTR9.1A
PDZVTFTR9.1B	PDZVTFTRN99.1B	PDZVTFTR9.1B
PDZVTR10A	PDZVTRN910A	PDZVTR10A
PDZVTR10B	PDZVTRN910B	PDZVTR10B
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PDZVTR12B	PDZVTRN912B	PDZVTR12B
PDZVTR13A	PDZVTRN913A	PDZVTR13A
PDZVTR13B	PDZVTRN913B	PDZVTR13B
PDZVTR15A	PDZVTRN915A	PDZVTR15A
PDZVTR15B	PDZVTRN915B	PDZVTR15B
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PDZVTR16B	PDZVTRN916B	PDZVTR16B
PDZVTR18A	PDZVTRN918A	PDZVTR18A
PDZVTR18B	PDZVTRN918B	PDZVTR18B
PDZVTR2.0A	PDZVTRN92.0A	PDZVTR2.0A
PDZVTR2.0B	PDZVTRN92.0B	PDZVTR2.0B
PDZVTR2.2A	PDZVTRN92.2A	PDZVTR2.2A
PDZVTR2.2B	PDZVTRN92.2B	PDZVTR2.2B
PDZVTR2.4A	PDZVTRN92.4A	PDZVTR2.4A
PDZVTR2.4B	PDZVTRN92.4B	PDZVTR2.4B
PDZVTR2.7A	PDZVTRN92.7A	PDZVTR2.7A
PDZVTR2.7B	PDZVTRN92.7B	PDZVTR2.7B
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PDZVTR20B	PDZVTRN920B	PDZVTR20B
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PDZVTR22B	PDZVTRN922B	PDZVTR22B
PDZVTR24A	PDZVTRN924A	PDZVTR24A
PDZVTR24B	PDZVTRN924B	PDZVTR24B
PDZVTR27A	PDZVTRN927A	PDZVTR27A
PDZVTR27B	PDZVTRN927B	PDZVTR27B
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PDZVTR3.0B	PDZVTRN93.0B	PDZVTR3.0B
PDZVTR3.3A	PDZVTRN93.3A	PDZVTR3.3A
PDZVTR3.3B	PDZVTRN93.3B	PDZVTR3.3B
PDZVTR3.6A	PDZVTRN93.6A	PDZVTR3.6A
PDZVTR3.6B	PDZVTRN93.6B	PDZVTR3.6B
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PDZVTR3.9B	PDZVTRN93.9B	PDZVTR3.9B
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PDZVTR33B	PDZVTRN933B	PDZVTR33B
PDZVTR36A	PDZVTRN936A	PDZVTR36A
PDZVTR36B	PDZVTRN936B	PDZVTR36B
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PDZVTR4.3A	PDZVTRN94.3A	PDZVTR4.3A
PDZVTR4.3B	PDZVTRN94.3B	PDZVTR4.3B
PDZVTR4.7A	PDZVTRN94.7A	PDZVTR4.7A

PDZVTR4.7B	PDZVTRN94.7B	PDZVTR4.7B
PDZVTR43A	PDZVTRN943A	PDZVTR43A
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PDZVTR5.1A	PDZVTRN95.1A	PDZVTR5.1A
PDZVTR5.1B	PDZVTRN95.1B	PDZVTR5.1B
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PDZVTR6.8A	PDZVTRN96.8A	PDZVTR6.8A
PDZVTR6.8B	PDZVTRN96.8B	PDZVTR6.8B
PDZVTR7.5A	PDZVTRN97.5A	PDZVTR7.5A
PDZVTR7.5B	PDZVTRN97.5B	PDZVTR7.5B
PDZVTR8.2A	PDZVTRN98.2A	PDZVTR8.2A
PDZVTR8.2B	PDZVTRN98.2B	PDZVTR8.2B
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PDZVTR9.1B	PDZVTRN99.1B	PDZVTR9.1B
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PMZTR5.6B	PMZTRN95.6B	PMZTR5.6B
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VS10VUA1LAMTR	VS10VUA1LAMTR N9	VS10VUA1LAMTR
VS11VUA1LAMTFTR	VS11VUA1LAMTFTR N9	VS11VUA1LAMTFTR
VS11VUA1LAMTR	VS11VUA1LAMTR N9	VS11VUA1LAMTR
VS12VUA1LAMTFTR	VS12VUA1LAMTFTR N9	VS12VUA1LAMTFTR
VS12VUA1LAMTR	VS12VUA1LAMTR N9	VS12VUA1LAMTR
VS13VUA1LAMTFTR	VS13VUA1LAMTFTR N9	VS13VUA1LAMTFTR
VS13VUA1LAMTR	VS13VUA1LAMTR N9	VS13VUA1LAMTR
VS14VUA1LAMTFTR	VS14VUA1LAMTFTR N9	VS14VUA1LAMTFTR
VS14VUA1LAMTR	VS14VUA1LAMTR N9	VS14VUA1LAMTR
VS15VUA1LAMTFTR	VS15VUA1LAMTFTR N9	VS15VUA1LAMTFTR
VS15VUA1LAMTR	VS15VUA1LAMTR N9	VS15VUA1LAMTR
VS16VUA1LAMTFTR	VS16VUA1LAMTFTR N9	VS16VUA1LAMTFTR
VS16VUA1LAMTR	VS16VUA1LAMTR N9	VS16VUA1LAMTR
VS17VUA1LAMTFTR	VS17VUA1LAMTFTR N9	VS17VUA1LAMTFTR
VS17VUA1LAMTR	VS17VUA1LAMTR N9	VS17VUA1LAMTR
VS18VUA1LAMTFTR	VS18VUA1LAMTFTR N9	VS18VUA1LAMTFTR
VS18VUA1LAMTR	VS18VUA1LAMTR N9	VS18VUA1LAMTR
VS20VUA1LAMTFTR	VS20VUA1LAMTFTR N9	VS20VUA1LAMTFTR
VS20VUA1LAMTR	VS20VUA1LAMTR N9	VS20VUA1LAMTR
VS22VUA1LAMTFTR	VS22VUA1LAMTFTR N9	VS22VUA1LAMTFTR
VS22VUA1LAMTR	VS22VUA1LAMTR N9	VS22VUA1LAMTR
VS24VUA1LAMTFTR	VS24VUA1LAMTFTR N9	VS24VUA1LAMTFTR
VS24VUA1LAMTR	VS24VUA1LAMTR N9	VS24VUA1LAMTR
VS26VUA1LAMTFTR	VS26VUA1LAMTFTR N9	VS26VUA1LAMTFTR
VS26VUA1LAMTR	VS26VUA1LAMTR N9	VS26VUA1LAMTR
VS28VUA1LAMTFTR	VS28VUA1LAMTFTR N9	VS28VUA1LAMTFTR
VS28VUA1LAMTR	VS28VUA1LAMTR N9	VS28VUA1LAMTR
VS30VUA1LAMTFTR	VS30VUA1LAMTFTR N9	VS30VUA1LAMTFTR
VS30VUA1LAMTR	VS30VUA1LAMTR N9	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

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