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Notification of Product/Process Change

Doc. No.: 4022005

This letter intends as a formal notification of change to products which are currently supplied by ROHM Co., Ltd.

ROHM Co., Ltd. requires customers to provide acknowledgment of the receipt of this notification within 30 days from the date of this notice. Lack of acknowledgment of this notice within 30 days is considered as acceptance of the change.

After acknowledgement of the customer, lack of additional response within 90 day period constitutes acceptance of the change according to JEDEC Standard J-STD-046.

Your understanding and cooperation would be highly appreciated.

Issue Date: September 1, 2022

Title of change	Power diode_PMDTM terminal plating additional application for in-house plating	
Identification of change	Although it cannot be identified with only actual item, it can be identified by history investigation of Lot No.	
Affected product(s)	Manufacturer part number	Customer part number
	PMDTM	
Detailed description of change	Before	After
	Only outsourcing plating	Parallel delivery of outsourcing plating and in-house plating
Reason for change	It becomes difficult for outsourced companies to conduct plating processing due to the recent semiconductor shortage. Therefore, in-house terminal plating is proceeded with in order to continue to supply ROHM's product stably. This application is request for parallel delivery of outsourced products which are continued to be produced and in-house products which would like to be produced in the future.	
Anticipated impact on form, fit, function, quality or reliability	The construction method, plating material, and plating thickness are the same, and it has been confirmed by evaluation that there is no difference in quality.	
Planned first ship date	Mai,6,2023	
Qualification plan schedule, results and samples	If required, please contact the local ROHM sales office or the authorized distributor.	
Comments		
Supplier contact	Please contact the local ROHM sales office or the authorized distributor.	
Notes		



Electronics for the Future

PMDTM terminal plating Additional application for in-house plating (Application No:4022005)

June 28th ,2022
AP production Headquarters
Discreate Production Division
Power Device Engineering Department

Application content



【Overview】

For PMDTM package, we would like to apply for additional approval for in-house plating as well as outsourced plating for terminal processing points.

【Background】

It becomes difficult for outsourced companies to conduct plating processing due to the recent semiconductor shortage. Therefore, ROHM would like to apply not only outsourced plating but also in-house plating as BCP countermeasure regarding PMDTM package of RWEM.

ROHM has applied for additional approval for the in-house plating in order to maintain a stable supply of products.

【Package】

All of PMDTM (Only RWEM production)

※Due to the same situation regarding PMDUM and PMDE, we are planning to apply in September 2023

【Change content】

	RWEM(this application)	ROHM WAKO(no change)
Before	Two companies of outsourcing plating	Outsourcing plating
After	Outsourcing plating + in-house plating	Outsourcing plating

【Product name】

We do not plan to change the external model name for this addition.

If it need to take additional measures, we will consider multi-model names, so please contact us.

4M changes



【4M changes】

4M	Before(Outsourcing)	After(In house)	Change point
Man	Outsourcing operator	In house operator	Yes
Method	Deflash⇒Plating	Deflash ⇒Plating	No
Machine	Outsourcing machine	In house machine	Yes
Material	Sn100%	Sn100%	No

【Schedule】

	2022							2023										
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	
Sales meeting	◆																	
Application of PMDTM				◆														
Sample				◆														
Mass product				◆														
Application of PMDUM and PMDE																	◆	

* Samples will be prepared in about 8 weeks.

* If the launch of PMDUM and PMDE is accelerated, there is a possibility that the application for March 2023 will be advanced.

Result of reliability test



Conducting test type : RSA5LAMTR,RSA12LAMTR (Made in Malaysia)

※ 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	1000h
			0/77	0/77	0/77	0/77
THB	High temperature and humid bias	Ta=85°C、Rh=85%、 VR=VR max	100h	240h	500h	1000h
			0/77	0/77	0/77	0/77
PCT	Pressure cooker	Ta=121°C、 Rh=100%、 2atm	100h	300h	500h	1000h
			0/77	0/77	0/77	0/77
TCY	Temperature cycle	-55°C(30min)~ +150°C(30min)	100cyc	300cyc	500cyc	1000cyc
			0/77	0/77	0/77	0/77

※It is no problem about soldability and solder wettability



Electronics for the Future

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Electronics for the Future

PMDTM terminal plating additional application for in-house plating (Application No : 4022005)

July 28th, 2020
AP Production Headquarters
Discrete Production Division
Power Device Engineering Department

4M changes



4M	Before(Outsourcing)	After(In house)	Change point
Man	Outsourcing operator	In house operator	Yes
Method	Deflash⇒Plating	Deflash ⇒Plating	No
Machine	Outsourcing machine	In house machine	Yes
Material	Sn100%	Sn100%	No

According to change outsourcing to in house, above change points will occur.



Electronics for the Future

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Result of reliability test



Conducting test type : RSA5LAMTR,RSA12LAMTR (Made in Malaysia)

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PCT	Pressure cooker	Ta=121°C、 Rh=100%、 2atm	100h	300h	500h	1000h
			0/77	0/77	0/77	0/77
TCY	Temperature cycle	-55°C(30min)~ +150°C(30min)	100cyc	300cyc	500cyc	1000cyc
			0/77	0/77	0/77	0/77

Internal PN	Public (External) PN
PDZV7HNTR4.3B	PDZVTFTR4.3B
PDZV8WMTR10A	PDZVTR10A
PDZV8WMTR10B	PDZVTR10B
PDZV8WMTR11A	PDZVTR11A
PDZV8WMTR11B	PDZVTR11B
PDZV8WMTR12A	PDZVTR12A
PDZV8WMTR12B	PDZVTR12B
PDZV8WMTR13A	PDZVTR13A
PDZV8WMTR13B	PDZVTR13B
PDZV8WMTR15A	PDZVTR15A
PDZV8WMTR15B	PDZVTR15B
PDZV8WMTR16A	PDZVTR16A
PDZV8WMTR16B	PDZVTR16B
PDZV8WMTR18A	PDZVTR18A
PDZV8WMTR18B	PDZVTR18B
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PDZV8WMTR2.0B	PDZVTR2.0B
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PDZV8WMTR2.4A	PDZVTR2.4A
PDZV8WMTR2.4B	PDZVTR2.4B
PDZV8WMTR2.7A	PDZVTR2.7A
PDZV8WMTR2.7B	PDZVTR2.7B
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PDZV8WMTR20B	PDZVTR20B
PDZV8WMTR22A	PDZVTR22A
PDZV8WMTR22B	PDZVTR22B
PDZV8WMTR24A	PDZVTR24A
PDZV8WMTR24B	PDZVTR24B
PDZV8WMTR27A	PDZVTR27A
PDZV8WMTR27B	PDZVTR27B
PDZV8WMTR3.0A	PDZVTR3.0A
PDZV8WMTR3.0B	PDZVTR3.0B
PDZV8WMTR3.3A	PDZVTR3.3A
PDZV8WMTR3.3B	PDZVTR3.3B
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PDZV8WMTR4.3B	PDZVTR4.3B
PDZV8WMTR4.7A	PDZVTR4.7A

PDZV8WMTR4.7B	PDZVTR4.7B
PDZV8WMTR43A	PDZVTR43A
PDZV8WMTR47A	PDZVTR47A
PDZV8WMTR5.1A	PDZVTR5.1A
PDZV8WMTR5.1B	PDZVTR5.1B
PDZV8WMTR5.6A	PDZVTR5.6A
PDZV8WMTR5.6B	PDZVTR5.6B
PDZV8WMTR6.2A	PDZVTR6.2A
PDZV8WMTR6.2B	PDZVTR6.2B
PDZV8WMTR6.8A	PDZVTR6.8A
PDZV8WMTR6.8B	PDZVTR6.8B
PDZV8WMTR7.5A	PDZVTR7.5A
PDZV8WMTR7.5B	PDZVTR7.5B
PDZV8WMTR8.2A	PDZVTR8.2A
PDZV8WMTR8.2B	PDZVTR8.2B
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PDZV9WMTR2.0B	PDZVTFTR2.0B
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PDZV9WMTR2.2B	PDZVTFTR2.2B
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PDZV9WMTR2.4B	PDZVTFTR2.4B
PDZV9WMTR2.7A	PDZVTFTR2.7A
PDZV9WMTR2.7B	PDZVTFTR2.7B
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PDZV9WMTR20B	PDZVTFTR20B
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PDZV9WMTR3.6B	PDZVTFTR3.6B
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PDZV9WMTR3.9B	PDZVTFTR3.9B
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PDZV9WMTR6.2B	PDZVTFTR6.2B
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PDZV9WMTR6.8B	PDZVTFTR6.8B
PDZV9WMTR7.5A	PDZVTFTR7.5A
PDZV9WMTR7.5B	PDZVTFTR7.5B
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PDZVTR11B	PDZVTR11B

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PDZVTR12B	PDZVTR12B
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PDZVTR13B	PDZVTR13B
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PDZVTR5.1B	PDZVTR5.1B
PDZVTR5.6A	PDZVTR5.6A
PDZVTR5.6B	PDZVTR5.6B

PDZVTR6.2A	PDZVTR6.2A
PDZVTR6.2B	PDZVTR6.2B
PDZVTR6.8A	PDZVTR6.8A
PDZVTR6.8B	PDZVTR6.8B
PDZVTR7.5A	PDZVTR7.5A
PDZVTR7.5B	PDZVTR7.5B
PDZVTR8.2A	PDZVTR8.2A
PDZVTR8.2B	PDZVTR8.2B
PDZVTR9.1A	PDZVTR9.1A
PDZVTR9.1B	PDZVTR9.1B
PMZTR2.4B	PMZTR2.4B
PMZTR20B	PMZTR20B
PMZTR5.6B	PMZTR5.6B
RB050LAM-308WMTR	RB050LAM-30TR
RB050LAM-309WMTR	RB050LAM-30TFTR
RB050LAM-30TFTR	RB050LAM-30TFTR
RB050LAM-30TR	RB050LAM-30TR
RB050LAM-408WMTR	RB050LAM-40TR
RB050LAM-409WMTR	RB050LAM-40TFTR
RB050LAM-40TFTR	RB050LAM-40TFTR
RB050LAM-40TR	RB050LAM-40TR
RB050LAM-608WMTR	RB050LAM-60TR
RB050LAM-609WMTR	RB050LAM-60TFTR
RB050LAM-60LDTR	RB050LAM-60LDTR
RB050LAM-60TFTR	RB050LAM-60TFTR
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RB055LAM-309WMTR	RB055LAM-30TFTR
RB055LAM-30TFTR	RB055LAM-30TFTR
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RB055LAM-40TFTR	RB055LAM-40TFTR
RB055LAM-40TR	RB055LAM-40TR
RB055LAM-608WMTR	RB055LAM-60TR
RB055LAM-609WMTR	RB055LAM-60TFTR
RB055LAM-60TFTR	RB055LAM-60TFTR
RB055LAM-60TR	RB055LAM-60TR
RB056LAM-408WMTR	RB056LAM-40TR
RB056LAM-409WMTR	RB056LAM-40TFTR
RB056LAM-40TFTR	RB056LAM-40TFTR
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RB058LAM1009WMTR	RB058LAM100TFTR
RB058LAM100TFTR	RB058LAM100TFTR
RB058LAM100TR	RB058LAM100TR
RB058LAM1508WMTR	RB058LAM150TR

RB058LAM1509WMTR	RB058LAM150TFTR
RB058LAM150TFTR	RB058LAM150TFTR
RB058LAM150TR	RB058LAM150TR
RB058LAM-308WMTR	RB058LAM-30TR
RB058LAM-309WMTR	RB058LAM-30TFTR
RB058LAM-30TFTR	RB058LAM-30TFTR
RB058LAM-30TR	RB058LAM-30TR
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RB058LAM-608WMTR	RB058LAM-60TR
RB058LAM-609WMTR	RB058LAM-60TFTR
RB058LAM-60TFTR	RB058LAM-60TFTR
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VS28VUA1LAM9WMTR	VS28VUA1LAMTFTR
VS28VUA1LAMTFTR	VS28VUA1LAMTFTR
VS28VUA1LAMTR	VS28VUA1LAMTR
VS30VUA1LAM8WMTR	VS30VUA1LAMTR
VS30VUA1LAM9WMTR	VS30VUA1LAMTFTR
VS30VUA1LAMTFTR	VS30VUA1LAMTFTR
VS30VUA1LAMTR	VS30VUA1LAMTR
VS5V0U1LAMTR	VS5V0U1LAMTR
VS5V0UA1LAM8WMTR	VS5V0UA1LAMTR
VS5V0UA1LAM9WMTR	VS5V0UA1LAMTFTR
VS5V0UA1LAMTFETR	VS5V0UA1LAMTFETR
VS5V0UA1LAMTFTR	VS5V0UA1LAMTFTR
VS5V0UA1LAMTR	VS5V0UA1LAMTR
VS6V0UA1LAM8WMTR	VS6V0UA1LAMTR
VS6V0UA1LAM9WMTR	VS6V0UA1LAMTFTR
VS6V0UA1LAMTFTR	VS6V0UA1LAMTFTR
VS6V0UA1LAMTR	VS6V0UA1LAMTR
VS7V0UA1LAM8WMTR	VS7V0UA1LAMTR
VS7V0UA1LAM9WMTR	VS7V0UA1LAMTFTR
VS7V0UA1LAMTFTR	VS7V0UA1LAMTFTR
VS7V0UA1LAMTR	VS7V0UA1LAMTR

VS8V0UA1LAM8WMTR VS8V0UA1LAMTR
VS8V0UA1LAM9WMTR VS8V0UA1LAMTFTR
VS8V0UA1LAMTFTR VS8V0UA1LAMTFTR
VS8V0UA1LAMTR VS8V0UA1LAMTR
VS9V0UA1LAM8WMTR VS9V0UA1LAMTR
VS9V0UA1LAM9WMTR VS9V0UA1LAMTFTR
VS9V0UA1LAMTFTR VS9V0UA1LAMTFTR
VS9V0UA1LAMTR VS9V0UA1LAMTR