Dear Valued Customer

Doc. No.: 4023003
Issue date: March 17, 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 :	July 17, 2023		Sample available schedule :	Within 6 weeks from request	
Attachements (data, report)	none	4M	4023003-2_4ME	Rlbl	4023003-3_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	

ROHM SEMICONDUCTOR

Electronics for the Future

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

March 15th ,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

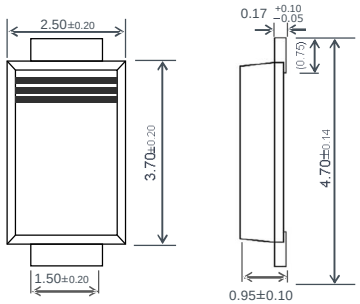
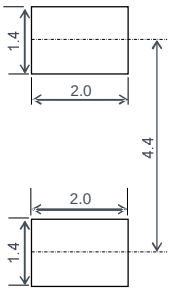
	2022			2023											
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Set up machine			■	■	■	■									
Reliability test					■	■									
Application						◆									
Sample								■	■						
Mass production										◆					

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**		

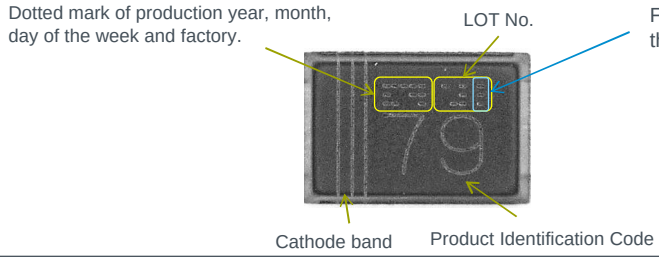
No change in product specifications.

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	Unit:mm  No Change		
Footprint reference	Unit:mm  No Change		

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			
Label (LOT No.)			The production factory can be identified by the last digit of the Lot No.. (□) W : Japan D : Malaysia N : China

Result of reliability test

Conducting test type : PMDTM〈SOD-128〉

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

[Pn/n]

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

Electronics for the Future

Rohm Public MPN
PDZVTFTR10A
PDZVTFTR10B
PDZVTFTR11A
PDZVTFTR11B
PDZVTFTR12A
PDZVTFTR12B
PDZVTFTR13A
PDZVTFTR13B
PDZVTFTR15A
PDZVTFTR15B
PDZVTFTR16A
PDZVTFTR16B
PDZVTFTR18A
PDZVTFTR18B
PDZVTFTR2.0A
PDZVTFTR2.0B
PDZVTFTR2.2A
PDZVTFTR2.2B
PDZVTFTR2.4A
PDZVTFTR2.4B
PDZVTFTR2.7A
PDZVTFTR2.7B
PDZVTFTR20A
PDZVTFTR20B
PDZVTFTR22A
PDZVTFTR22B
PDZVTFTR24A
PDZVTFTR24B
PDZVTFTR27A
PDZVTFTR27B
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PDZVTFTR3.6B
PDZVTFTR3.9A
PDZVTFTR3.9B
PDZVTFTR30A
PDZVTFTR30B
PDZVTFTR33A
PDZVTFTR33B
PDZVTFTR36A
PDZVTFTR36B
PDZVTFTR39A
PDZVTFTR4.3A
PDZVTFTR4.3B
PDZVTFTR4.7A
PDZVTFTR4.7B
PDZVTFTR43A
PDZVTFTR47A
PDZVTFTR5.1A
PDZVTFTR5.1B
PDZVTFTR5.6A
PDZVTFTR5.6B
PDZVTFTR6.2A

PDZVTFTR6.2B
PDZVTFTR6.8A
PDZVTFTR6.8B
PDZVTFTR7.5A
PDZVTFTR7.5B
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PDZVTR11B
PDZVTR12A
PDZVTR12B
PDZVTR13A
PDZVTR13B
PDZVTR15A
PDZVTR15B
PDZVTR16A
PDZVTR16B
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PDZVTR18B
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