

Doc. No.: 1023002 Issue date: Mrz 1.2023

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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 Apr 1.2024 Title of change LSI Adding LAPIS Miyagi as a new production site for 0.18um memory products as a part of BCP(3) Manufacturer part number Customer part number Affected product(s) See Attachment See Attachment Now After Detailed ROHM Co.,Ltd. Kyoto Plant description of ROHM Co., Ltd. Kyoto Plant 0.18um memory LSI product change 0.18um memory LSI product LAPIS Semiconductor Co., Ltd. Miyagi plant 0.18um memory LSI product Reason for Stabilization of supply through two production sites change Anticipated No impacts on quality impact on quality Identification of Traceable from the marking change Planned first ship date: Mai 1.2024 Sample available schedule : Mrz 1.2023 Attachements (data, report) YES 1023002-1_PCN Detail, 1023002-2_4ME, 1023002-3_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

No.1023002

LSI Adding LAPIS Miyagi as a new production site for 0.18um memory products as a part of BCP (3)

- 1. Summary of the change
- 2. Summary of LAPIS Miyagi factory
- 3 . Change point of 5M with the factory transferring
- 4. Investigation into the change in 5M (Wafer level)
- 5. Investigation into the change in 5M (Product level)
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March 1, 2023 WP Control Div. ROHM Co., Ltd.

1. Summary of the change



•Issue Date: March 1. 2023

•Doc. Number: 1023002

•Detailed description: Additional Manufacturing Site for 0.18µm memory Wafer Process.

For manufacturing backup and delivery consistency as a part of BCP, ROHM LSI division is introducing an additional manufacturing site for 0.18um memory process. The additional wafer fabrication located in Miyagi, Japan is already an existing supplier of other products. In addition, the chip size is the same as current products. There is no change in form, fit

and function (finished goods dimensions) on all involved part numbers.

•Reason for change: Continuity of supply.

•Qualification: Refer attached.

•Schedule: Sample available date: March 1, 2023

PCN Response required by: April 1, 2024 Proposed First Ship Date: May 1, 2024

•ROHM contact: Contact your local ROHM Sales Office. Sample delivery timing will be subject to request

date, sample quantity and special customer packing/label requirements.

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2. Summary of LAPIS Miyagi factory (1/2)





2-1) Summary of LAPIS Miyagi factory

Company name Location

: LAPIS Miyagi Co.,Ltd. : 1,Okinodaira Ohira-mura Kurokawa-gun, Miyagi

Started Operation : April 8, 1988 Production Item

: Monolithic IC

Production Capacity: LSI 38,000 wafers/a month

2-2) LSI production

(Transferred products of the wafer process producing in ROHM Kyoto factory to LAPIS Miyagi factory)

Start of production: December 2013 Production Volume: 9,6000 wafers

(As of Dec. 2021)

Smallest design rule: 0.13µm

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2. Summary of Lapis Miyagi factory (2/2)



2-3) Environmental management (Clean room)

Item		Frequency	Method	Unit	Control	ROHM Kyoto (Existing)	LAPIS Miyagi (New)
						Result	Result
Temperature		Continuous monitoring	Thermometer	$^{\circ}$	22~24	22~24	22~24
Humidity		Continuous monitoring	Hygrometer	%	35~55	40~50	40~50
Area cleanliness	Passage	Continuous monitoring	Measured by Laser dust counter	pcs/cf	35 (0.1μm)	Less than 10	Less than 10
	Operation	Continuous monitoring		pcs/cf	35 (0.1μm)	Less than 10	Less than 10
	Mask	Continuous monitoring		pcs/cf	35 (0.1μm)	Less than 10	Less than 10
	Smallest design rule					0.13μm	0.13µm

There is no difference about the environmental management (clean room) between the factories.

3. Change point of 5M with the factory transferring (1/2)



3-1) Change point of 5M

5M		ROHM Kyoto (Existing)	LAPIS Miyagi (New)	Comparison
Man (Person)	_		zed in a license system in the g to operating procedures.	Equal
	Equipment in use	Existing device (tl	he same method)	Equal
Machino	Factory management contents	Conforming	to QC chart.	Equal
Machine (Facilities)	Management method	In accordance with facilities QC chart, carrying out SPC management.		Equal
	Transport between the equipment	Cart/Robot cart	OHV (Overhead Hoist Vehicle)	Different %1
Materials	Wafer	200mm	200mm Si wafer	
Materials	Others	Same thing is used by ce	entralized supply system.	Equal
	Processing condition	Conforming	Conforming to QC chart.	
Method Treatment of the control limits out Conforming to quality abnorma		normality measures rule.	Equal	
	Inspection contents	Conforming to ins	Equal	
Method	Measuring equipment	Equipment is calibrated in equal standard		Equal
Management method		Conforming to measure	Equal	

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3. Change point of 5M with the factory transferring (2/2)



3-2) Change point of product process flow

	Process	ROHM Kyoto (Existing)	LAPIS Miyagi (New)
Wafer process	GATE formation Metalization Passivation	ROHM Kyoto	LAPIS Miyagi
Assembly process	Wafer probe test Dicing Assembling	No ch	nange
Inspection process	Final test	No ch	nange

Only the wafer process is being changed. There is no change in the assembly and testing processes.

4. Investigation into the change in 5M (Wafer level) (1/2)



4-1) Process capability of main element characteristics

Process capability of $0.18\mu m$ memory ROHM Kyoto and Lapis Miyagi are as follows. (Compared by main Tr characteristics)

The comparison is based on the 20 lots of mass production. It has a Cpk of 1.66 or higher.

Item	ROHM Kyoto (Existing)			LAPIS Miyagi (New)		
	σ	Ср	Cpk	σ	Ср	Cpk
NMOS Vth	0.02	1.86	1.81	0.02	1.82	1.74
PMOS Vth	0.02	1.86	1.79	0.02	1.96	1.72
Memory 1Vth	0.27	2.08	2.01	0.27	2.03	1.92
Memory 0Vth	0.27	1.82	1.79	0.22	2.25	2.25
CONT CR	0.6	2.22	2.11	0.33	4.02	3.78
VIA CR	0.4	2.07	2.04	0.44	1.88	1.86

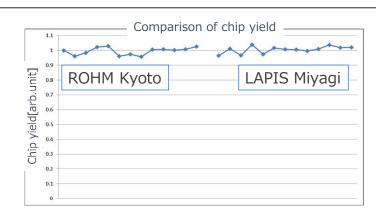
4. Investigation into the change in 5M (Wafer level) (2/2)



4-2) Chip yield

Chip yield comparison between 0.18µm memory ROHM Kyoto and LAPIS Miyagi.

There is no difference in chip yield between the two lines.



4-3) Wafer Level Reliability Test Results

Results of wafer-level reliability evaluation of LAPIS Miyagi.

Reliability criteria have been met in the following items.

Test item	Test symbol	Evaluation criteria	Results judgement
Time Dependent Dielectric Breakdown	TDDB	Constraints	Pass
Negative Bias Temperature Instability	NBTI	Guarantee more than twenty years	Pass
Hot Carrier Injection	HCI	in actual use	Pass
Stressmigration	SM	iii actaai asc	Pass
Electromigration	EM		Pass

5. Investigation into the change in 5M (Product level)



5-1) Designs

Yield evaluation and characteristic evaluation are conducted for each product model, and compatibility is confirmed for all items.

5-2) QAT result

QAT results on other models in mass production at LAPIS Miyagi are shown below. All tests met the standards.

Test item	Test symbol	Number of samples	Test condition	Test time	Results judgement
Dynamic Burn In	B/IN		125℃、Vcc=MAX	2,000h	Pass
Pressure Cooker	PCT	3Lot ×	121℃、100%RH、2atm	500h	Pass
Temperature Cycle	TCY	77pcs	-65℃⇔150℃、30min	1,000cycle	Pass
Hightemperature Storage	HST	TOTAL 231pcs	150℃	2,000h	Pass
High Acceleration Stress	HAST	201700	130℃、Vcc=MAX、85%RH	200h	Pass

6. Summary



Based on the above evaluation and verification, ROHM has determined that ROHM Kyoto and LAPIS Miyagi can guarantee the same quality characteristics for 0.18µm memory models.

ROHM will apply changes to the applicable models for your company shortly after receiving your approval.

We appreciate your understanding and cooperation.



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Internal PN	Public (External) PN
BR24T02FVM-WBZGGTR	BR24T02FVM-WGTR
BR24T02FVM-WBZGTR	BR24T02FVM-WGTR
BR24T02FVM-WGTR	BR24T02FVM-WGTR
BR24T02FVM-WTR	BR24T02FVM-WTR
BR24T02NUX-WBZGTR	BR24T02NUX-WGTR
BR24T02NUX-WBZTR	BR24T02NUX-WTR
BR24T02NUX-WGTR	BR24T02NUX-WGTR
BR24T02NUX-WTR	BR24T02NUX-WTR
BR24T02FVM-WVPTR	BR24T02FVM-WTR
BR24T02FVJ-WBZE2	BR24T02FVJ-WE2
BR24T02FVJ-WE2	BR24T02FVJ-WE2
BR24T02FVM-WSTR	BR24T02FVM-WTR
BR24T02NUX-WBZSGTR	BR24T02NUX-WSGTR
BR24T02NUX-WSGTR	BR24T02NUX-WGTR
BR24T02F-WME2	BR24T02F-WE2
BR24T02F-WBZE2	BR24T02F-WE2
BR24T02F-WE2	BR24T02F-WE2
BR24T02FV-WBZE2	BR24T02FV-WE2
BR24T02FV-WE2	BR24T02FV-WE2
BR24T02FV-WSE2	BR24T02FV-WE2
BR24T02F-WSE2	BR24T02F-WE2
BR24T04FVM-WBZGGTR	BR24T04FVM-WGTR
BR24T04FVM-WBZGTR	BR24T04FVM-WGTR
BR24T04FVM-WGTR	BR24T04FVM-WGTR
BR24T04FVM-WTR	BR24T04FVM-WTR
BR24T04NUX-WGTR	BR24T04NUX-WGTR
BR24T04NUX-WTR	BR24T04NUX-WTR
BR24T04FVM-WVPTR	BR24T04FVM-WTR
BR24G04NUX-3STTR	BR24G04NUX-3TTR
BR24G04NUX-3TS1TR	BR24G04NUX-3TTR
BR24T04FVJ-WGE2	BR24T04FVJ-WGE2
BR24T04F-WME2	BR24T04F-WE2
BR24T04F-WBZE2	BR24T04F-WE2
BR24T04F-WE2	BR24T04F-WE2
BR24T04F-WVPE2	BR24T04F-WE2
BR24T04F-WSE2	BR24T04F-WE2
BR24T08FVM-WBZGGTR	BR24T08FVM-WGTR
BR24T08FVM-WBZGTR	BR24T08FVM-WGTR
BR24T08FVM-WGTR	BR24T08FVM-WGTR
BR24T08FVM-WTR	BR24T08FVM-WTR
BR24T08NUX-WBZGTR	BR24T08NUX-WGTR
BR24T08NUX-WBZTR	BR24T08NUX-WTR
BR24T08NUX-WGTR	BR24T08NUX-WGTR
BR24T08NUX-WTR	BR24T08NUX-WTR
BR24G08NUX-3TSTR	BR24G08NUX-3TTR
BR24T16FVM-WBZGGTR	BR24T16FVM-WGTR
BR24T16FVM-WGTR	BR24T16FVM-WGTR
BR24T16FVM-WTR	BR24T16FVM-WTR
BR24T16NUX-WBZGTR	BR24T16NUX-WGTR

BR24T16NUX-WBZTR	BR24T16NUX-WTR
BR24T16NUX-WGTR	BR24T16NUX-WTR
BR24T16NUX-WTR	BR24T16NUX-WGTK
BR24T16FVJ-WBZE2	BR24T16FVJ-WE2
BR24T16FVJ-WBZSE2	BR24T16FVJ-WE2
BR24T16FVJ-WE2	BR24T16FVJ-WE2
BR24T16FVM-WSTR	BR24T16FVM-WTR BR24T16NUX-WGTR
BR24T16NUX-WBZSGTR BR24T16NUX-WSGTR	BR24T16NUX-WGTR
BR24T16F-WME2 BR24T16-WZ	BR24T16F-WE2 BR24T16-WZ
BR24G16-3Z	BR24G16-3Z
BR24T16FJ-WBZE2	BR24T16FJ-WE2
BR24T16FJ-WBZZE2	BR24T16FJ-WE2
BR24T16FJ-WE2	BR24T16FJ-WE2
BR24T16F-WBZE2	BR24T16F-WE2
BR24T16F-WE2	BR24T16F-WE2
BR24T16FJ-WBZSE2	BR24T16FJ-WE2
BR24T16FJ-WSE2	BR24T16FJ-WE2
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BR24T32NUX-WBZTR	BR24T32NUX-WTR
BR24T32NUX-WGTR	BR24T32NUX-WGTR
BR24T32NUX-WTR	BR24T32NUX-WTR
BR24T32FVM-W06BTR	BR24T32FVM-W06BTR
BR24T32FVM-WVPTR	BR24T32FVM-WTR
BR24T32NUX-WH03TR	BR24T32NUX-WH03TR
BR24T32FVJ-WBZE2	BR24T32FVJ-WE2
BR24T32FVJ-WE2	BR24T32FVJ-WE2
BR24T32NUX-WBZSGTR	BR24T32NUX-WGTR
BR24T32NUX-WSGTR	BR24T32NUX-WGTR
BR24T32F-WME2	BR24T32F-WE2
BR24T32F-WBZE2	BR24T32F-WE2
BR24T32F-WE2	BR24T32F-WE2
BR24T32F-WBZSE2	BR24T32F-WE2
BR24T32F-WSE2	BR24T32F-WE2
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BR24T64FVT-WBZGE2	BR24T64FVT-WGE2
BR24T64FVT-WE2	BR24T64FVT-WE2
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BR24T64FVT-WBZSGE2	BR24T64FVT-WE2
BR24T64FVT-WSE2	BR24T64FVT-WE2
BR24T64FVT-WSGE2	BR24T64FVT-WGE2
BR24T64FVM-WBZGGTR	BR24T64FVM-WGTR
BR24T64FVM-WBZGTR	BR24T64FVM-WGTR

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BR24T64FVM-WGTR	BR24T64FVM-WGTR
BR24T64FVM-WTR	BR24T64FVM-WTR
BR24T64NUX-WBZTR	BR24T64NUX-WTR
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BR24T128FVT-WSE2	BR24T128FVT-WE2
BR24T128FVT-WSGE2	BR24T128FVT-WGE2
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BR24T128NUX-WTR	BR24T128NUX-WTR
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BR24T128FVJ-WB2E2	BR24T128FVJ-WE2
	BR24T128NUX-WSTR
BR24T128NUX-WBZSTR	DV741170NOV-M21K

DD24T120NHIV MCCTD	DD24T120NHV MCTD
BR24T128NUX-WSGTR	BR24T128NUX-WGTR
BR24T128NUX-WSTR BR24G128FJ-3GTZE2	BR24T128NUX-WTR BR24G128FJ-3GTE2
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BR24T256F-WBZVPE2	BR24T256F-WE2
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BR24T256FJ-WSE2	BR24T256FJ-WE2
BR24T256FJ-WSGE2	BR24T256FJ-WGE2

BR24T256FJ-WSGNE2 BR24T256FJ-WGE2 BR24T256FV-WBZE2 BR24T256FV-WE2 BR24T256FV-WBZGE2 BR24T256FV-WGE2 BR24T256FV-WE2 BR24T256FV-WE2 BR24T256FV-WGE2 BR24T256FV-WGE2 BR24T256FV-WSE2 BR24T256FV-WE2 BR24T256F-WSGE2 BR24T256F-WGE2 BR24T256F-WBZSE2 BR24T256F-WE2 BR24T256F-WGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2		·
BR24T256FV-WBZGE2 BR24T256FV-WE2 BR24T256FV-WE2 BR24T256FV-WGE2 BR24T256FV-WGE2 BR24T256FV-WGE2 BR24T256FV-WSE2 BR24T256FV-WSE2 BR24T256FV-WGE2 BR24T256F-WSGE2 BR24T256F-WBZSE2 BR24T256F-WBZSE2 BR24T256F-WE2 BR24T256F-WSE2 BR24T256F-WSGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FJ-WSGNE2	BR24T256FJ-WGE2
BR24T256FV-WE2 BR24T256FV-WGE2 BR24T256FV-WGE2 BR24T256FV-WSE2 BR24T256FV-WSE2 BR24T256FV-WGE2 BR24T256FV-WGE2 BR24T256F-WSGE2 BR24T256F-WE2 BR24T256F-WBZSE2 BR24T256F-WE2 BR24T256F-WSGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FV-WBZE2	BR24T256FV-WE2
BR24T256FV-WGE2 BR24T256FV-WSE2 BR24T256FV-WSE2 BR24T256FV-WSGE2 BR24T256FV-WGE2 BR24T256F-WBZSE2 BR24T256F-WE2 BR24T256F-WSE2 BR24T256F-WSE2 BR24T256F-WSGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FV-WBZGE2	BR24T256FV-WGE2
BR24T256FV-WSE2 BR24T256FV-WE2 BR24T256FV-WSGE2 BR24T256FV-WGE2 BR24T256F-WBZSE2 BR24T256F-WE2 BR24T256F-WSE2 BR24T256F-WE2 BR24T256F-WGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FV-WE2	BR24T256FV-WE2
BR24T256FV-WSGE2 BR24T256F-WBZSE2 BR24T256F-WBE2 BR24T256F-WSE2 BR24T256F-WSE2 BR24T256F-WSGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FV-WGE2	BR24T256FV-WGE2
BR24T256F-WBZSE2 BR24T256F-WE2 BR24T256F-WSE2 BR24T256F-WE2 BR24T256F-WGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FV-WSE2	BR24T256FV-WE2
BR24T256F-WSE2 BR24T256F-WE2 BR24T256F-WSGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256FV-WSGE2	BR24T256FV-WGE2
BR24T256F-WSGE2 BR24T256F-WGE2 BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256F-WBZSE2	BR24T256F-WE2
BR25A512FVT-3MGE2 BR25A512FVT-3MGE2 BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256F-WSE2	BR24T256F-WE2
BR25A512F-3MGE2 BR25A512F-3MGE2 BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR24T256F-WSGE2	BR24T256F-WGE2
BR25A512FJ-3MGE2 BR25A512FJ-3MGE2 BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR25A512FVT-3MGE2	BR25A512FVT-3MGE2
BR25G1MF-3GE2 BR25G1MF-3GE2 BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR25A512F-3MGE2	BR25A512F-3MGE2
BR25G1MFJ-3GE2 BR25G1MFJ-3GE2	BR25A512FJ-3MGE2	BR25A512FJ-3MGE2
	BR25G1MF-3GE2	BR25G1MF-3GE2
BR25G1MFJ-3SGE2 BR25G1MFJ-3GE2	BR25G1MFJ-3GE2	BR25G1MFJ-3GE2
	BR25G1MFJ-3SGE2	BR25G1MFJ-3GE2