

# PRODUCT / PROCESS CHANGE NOTIFICATION Generic Copy

**PCN#2208001-AU** • DATE: 15<sup>th</sup> August, 2022

PCN Subject: Wafer Manufacturing Site Change

•	PCN	Change	Category:

Material	Process	Datasheet/Specification
Reliability		
Others (		)

# • Description of Change Purpose or Reason:

This PCN is issued to notify customers that our foundry fab "Phenitec Semiconductor Corporation" will transfer wafer manufacturing site from "HQ Fab" to "1st Fab" which both sites are located in Okayama, Japan. Along with manufacturing site change, the wafer diameter changed from 5" to 6". For more detail, please check below change information.

We recommend that you acknowledge receipt of this notification within 30 days of this PCN date. If you require samples for further evaluation, please feel free to contact your local sales representative and make a request. We are always pleased to serve you at any time.



### • Change information

Comparison	From (Current)	Change to (New)	
Wafer Foundry Phenitec Semicond Corporation		Phenitec Semiconductor Corporation	
Manufacturing site	HQ Fab	1st Fab	
Wafer Diameter (inch)	5"	6"	
Die Size(mil)	No change		
Die Thickness(µm)	No change		

# • Verification /Qualification Data:

The electrical characterization and high reliability testing have been completed

on representative part numbers to ensure there is no change to device

functionality or electrical specifications in the datasheet. There will be no change

to the Form, Fit, or Function of products affected.

# • Affected Product Type :

Function: SCHOTTKY				
BAS70A-AU	BAS70-AU	BAS70C-AU	BAS70CW-AU	BAS70SDW-AU
BAS70TW-AU	BAS70WS-AU	BAS70ADW-AU	BAS70AW-AU	BAS70CDW-AU
BAS70S-AU	BAS70SW-AU	BAS70W-AU		

# • Effective Date : 15<sup>th</sup> February, 2023



# > <u>The reliability test results are summarized below:</u>

#### Product reliability test result: PASS

PI	Product reliability test result. PASS				
No.	DESCRIPTION	TEST CONDITION	DURATION	FAILURE RATE	
1	High Temperature Reverse Bias (HTRB)	Ta = 100°C,VR=100%VB, DC supply	1000 HOURS	0/77 PCS	3 LOTS PASS
2	Temperature Cycling (TCT)	Ta = $-55^{\circ}C \sim +150^{\circ}C$ ( 2 cycles / Hour )	1000 CYCLES	0/77 PCS	3 LOTS PASS
3	Autoclave (AC)	Ta = 121°C, P = 29.7psia ,100%RH	96 HOURS	0/77 PCS	3 LOTS PASS
4	High Humidity High Temp. Reverse Bias(H3TRB)	TA = 85°C +/-2°C RH=85% +/-5% VR = 80%VB DC Supply	1000 HOURS	0/77 PCS	3 LOTS PASS
5	Intermittent Forward Operation Life (IOL)	$\triangle$ Tj $\ge$ 100°C, POWER ON: 2 mins; POWER OFF: 2 mins.	15000 CYCLES	0/77 PCS	3 LOTS PASS
6	Resistance to Solder Heat (RSH)	Temperature of solder pot = $260 + 5/-0^{\circ}C$ Time for dipping in solder = $10 \pm 1$ Sec	1 CYCLE	0/30 PCS	3 LOTS PASS



# • ELECTRICAL CHARACTERISTICS SUMMARY:

There is no change to the product electrical specifications.

### • SAMPLES NEED :

Contact your local PANJIT sales representative.

# • TECHNICAL CONTACT :

E-mail: alanliu@panjit.com.tw

# • FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local PANJIT sales representative.

# • ADDITIONAL RELIABILITY :

Contact your local PANJIT sales representative.

# • CHANGED PART IDENTIFICATION :

The tracking of 1<sup>st</sup> delivery after change can be identified by production lot

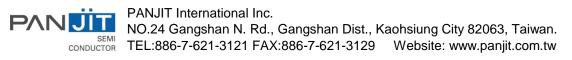
number. Please contact your local sales for tracking lot number.

Please refer to below Lot number rule:

Lot number: 2924XXXX.

1st digit "2" denotes Year 2022. 2nd digit "9" denotes September. 3rd and 4th digits denote Day.

From 5<sup>th</sup> digits (XXXXX) denotes production serial number.



# **Customer Acknowledgement Form**

(To be filled out by the customer and returned to HQBU of PANJIT)		
The indicated Customer Notification letter was received and acknowledged by the undersigned authority.		
Company Name :		
Customer Name : (Signature) Date:		
PCN number: PCN# 2208001-AU		
Approval for the Product/Process change:  Yes  No		
Comments/Additional requests:		

Thanks for your attention on this matter. Please return the acknowledgment form to your local PANJIT sales representative.

Please note that no objection within 30 days upon receiving will be deemed as being accepted and agreed with this Process Change Notification.