PANJIT International Inc.
NO.24 Gangshan N. Rd., Gangshan Dist., Kaohsiung City 82063, Taiwan.
TEL:886-7-621-3121 FAX:886-7-621-3129 Website: www.panjit.com.tw

PRODUCT / PROCESS CHANGE NOTIFICATION

Generic Announcement

PCN#2504001 • DATE: 09th April, 2025

PCN Subject: Change Wafer Source for FRED Products

- **PCN Change Category:**

  ■ **Material** ☐ **Process** ☐ **Data sheet / Specification**

  ☐ **Reliability**

  ■ **Others (Change Wafer Source)**

- **Description of Change Purpose or Reason:**

This PCN is being issued to notify customers that, in order to assure continuity of supply, PANJIT has qualified a new wafer source, "Suzhou Tongguan Microelectronic Co., Ltd." for selected FRED products. For more details, please refer to the change information below.

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.

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- **Change Information:**

Comparison	From (Current)	Change to (New)
Wafer Foundry	Episil Technologies Inc.	Suzhou Tongguan Micro-Electrons Co.,Ltd.
Wafer Fab	Episil Technologies Inc.	Suzhou Tongguan Micro-Electrons Co.,Ltd.
Passivation Layer	Oxynitride	Nitride + Polyimide

- **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: FRED Rectifiers			
PSDP08120L1	PSDP08120S1	PSDP15120L1	PSDP15120S1
PSDP30120L1	PSDP30120S1	PSDH30120L1	PSDH30120S1

- **Effective Date**：09th July, 2025

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➢ The reliability test results are summarized below:

Product reliability test result: PASS

No.	DESCRIPTION	TEST CONDITION	DURATION	FAILURE RATE	
1	Temperature Cycling (TCT)	Ta = -55℃~ +150℃ (2 cycles / Hour)	1000 CYCLES	0/77 PCS	3 LOTS PASS
2	High Temperature Storage Test (HTSL)	Ta = 175℃	1000 HOURS	0/77 PCS	3 LOTS PASS
3	Resistance to Solder Heat (RSH)	Temperature of solder pot = 270 ±5℃ Time for dipping in solder = 7 +2/-0 Sec	1 CYCLE	0/30 PCS	3 LOTS PASS
4	High Temperature Reverse Bias (HTRB)	TA=165℃, V = 80%VR, DC supply	1000 HOURS	0/77 PCS	3 LOTS PASS
5	Autoclave (AC)	Ta = 121℃, P = 15psig. ,100%RH	96 HOURS	0/77 PCS	3 LOTS PASS
6	Intermittent Operation Life (IOL)	△Tj≧100℃ On time: 120 sec Off time: 120 sec	15000 CYCLES	0/77 PCS	3 LOTS PASS
7	Highly Accelerated Stress Test (HAST)	Ta=130°C, 85%RH, 80%VR	96 HOURS	0/77 PCS	3 LOTS PASS

- **ELECTRICAL CHARACTERISTICS SUMMARY:**

  There is no change to the product electrical specifications.

- **SAMPLES REQUEST :**

  Contact your local PANJIT sales representative.

- **TECHNICAL CONTACT :**

  E-mail: jwchen@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 1st 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: **5708XXXXX.**

  1st digit “5” denotes Year 2025.
  2nd digit “7” denotes July.
  3rd and 4th digits denote Day.

  From 5th digits (XXXXX) denotes production serial number.

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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#2504001

Approval for the Product/Process change: ☐Yes ☐No

Comments/Additional requests:

_____

_____

_____

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

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

Function	Package	Type	PartNumber
FRED	TO-247AD-2LD	PSDH30120L1	PSDH30120L1_T0_00001
FRED	TO-247AD-2LD	PSDH30120S1	PSDH30120S1_T0_00001
FRED	TO-220AC	PSDP08120L1	PSDP08120L1_T0_00001
FRED	TO-220AC	PSDP08120S1	PSDP08120S1_T0_00001
FRED	TO-220AC	PSDP15120L1	PSDP15120L1_T0_00001
FRED	TO-220AC	PSDP15120S1	PSDP15120S1_T0_00001
FRED	TO-220AC	PSDP30120L1	PSDP30120L1_T0_00001
FRED	TO-220AC	PSDP30120S1	PSDP30120S1_T0_00001