

PRODUCT / PROCESS CHANGE NOTIFICATION

Generic Copy

PCN#2202001 • DATE: 25th February, 2022

PCN Subject: Change wafer source for FRED products

• **PCN Change Category:**

- Material** **Process** **Datasheet/Specification**
- Reliability**
- Others ()**

• **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 an new wafer source, "Suzhou Tongguan Microelectronic Co., Ltd." for selected devices of FRED products. For more detail, please refer to 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.**

Wafer Supplier	From (Existing)	Change to (New)
	Mosel Vitelic Inc.	Suzhou Tongguan Microelectronic Co., Ltd.
Die Size(mil)	86*86	87*87
	109*109	110*110
	173*123	174*124
	219*219	219*219

● **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					
PACKAGE	ITO-220AC	TO-220AC	TO-247AD-2LD	TO-247AD-3LD	TO-263
PRODUCT TYPE	PSDF0860L1	PSDP0860L1	PSDH3060L1	PSDH3060CCL1	PSDB0860L1
	PSDF0860S1	PSDP0860S1	PSDH3060S1	PSDH3060CCS1	PSDB0860S1
	PSDF1560L1	PSDP1560L1	PSDH6060L1	PSDH6060CCL1	PSDB1560L1
	PSDF1560S1	PSDP1560S1	PSDH6060S1	PSDH6060CCS1	PSDB1560S1
	PSDF3060L1	PSDP3060L1			PSDB3060L1
	PSDF3060S1	PSDP3060S1			PSDB3060S1

● **Effective Date : 25th May, 2022**

➤ **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°C~ +150°C (2 cycles / Hour)	1000 CYCLES	0/77 PCS	3 LOTS PASS
2	High Temperature Storage Test (HTSL)	Ta= 150°C	1000 HOURS	0/77 PCS	3 LOTS PASS
3	Resistance to Solder Heat (RSH)	Temperature of solder pot = 260+5/-0°C Time for dipping in solder = 10 ±1 Sec	1 CYCLE	0/30 PCS	3 LOTS PASS
4	Intermittent Forward Operation Life (IFOL)	I=1.0 × IF±10% DC supply On time: 30 sec Off time: 50 sec	15000 CYCLES	0/77 PCS	3 LOTS PASS
5	FORWORD SURGE CURRENT (F.S.C)	SQ wave or sine wave IFSM=datasheet Spec. Duration of pulses(tp)=8.3ms Number of current pulses (n) =1cycle	1 CYCLE	0/22 PCS	3 LOTS PASS
6	High Temperature Reverse Bias (HTRB)	Ta= 140°C , VR=80%VB, DC supply	1000 HOURS	0/77 PCS	3 LOTS PASS
7	Autoclave (AC)	Ta = 121°C, P = 29.7psia ,100%RH	96 HOURS	0/77 PCS	3 LOTS PASS
8	Temperature Humidity Storage (THS)	Ta=85°C , RH=85%	1000 HOURS	0/77 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 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: **2924XXXXX**.

1st digit "2" denotes Year 2022.

2nd digit "9" denotes September.

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# 2202001

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.