

PRODUCT / PROCESS CHANGE NOTIFICATION

Generic Copy

PCN#2310002

• DATE: 25th October, 2023

PCN Subject: Additional assembly site for package SMAF-C

• **PCN Change Category:**

- ☒ **Material**

 ☒ **Process**

 ☐ **Datasheet/Specification**
☐ **Reliability**
☒ **Others (Additional assembly site)**

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

This PCN is being issued to notify customers that in order to strengthen supply chain and assure continuity of supply, PANJIT has qualified internal assembly site "PANJIT Electronics (WUXI) Co., Ltd" for package SMAF-C.

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:**

Assembly Site			Current	Add
			PANJIT International Inc.	PANJIT Electronics (WUXI) Co., Ltd.
Production Site Location			Kaohsiung, Taiwan	Wuxi, China
Material	Lead frame	Supplier	LeFram Technology Corp.	Suzhou SH Precision Co., Ltd.
	Solder paste	Supplier	SHENMAO TECHNOLOGY INC.	SHENMAO TECHNOLOGY INC.
		Type	SH-05X25-203L	SH-05X25-203L
	Epoxy molding compound	Supplier	E'dale Technology Co., Ltd.	Sumitomo Bakelite (Suzhou) Co., Ltd.
		Type	ELER-8-500C	G630AY-H
	Method	Process		
		Manufacturing Site	PANJIT International Inc.	Hi-Tech Semi-Conductor (Changshu) Co., Ltd.
		De-flash	Electrolytic De-flash	Chemical De-flash
		Plating	Rack Plating	Strip Plating

• **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** : Refer to below Table 1.

• **Effective Date** : 25th January, 2024

➤ **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°C Time for dipping in solder = 10 ± 1 Sec	1 CYCLE	0/30 PCS	3 LOTS PASS
4	Solder ability (SD)	Temperature of solder pot = 245 ± 5°C Time for dipping in solder = 5 ± 0.5 Sec	1 CYCLE	0/10 PCS	3 LOTS PASS
5	Intermittent Forward Operation Life (IFOL)	$\Delta T_j \geq 100^\circ\text{C}$ On time = 120s Off time = 120s	15000 CYCLES	0/77 PCS	3 LOTS PASS
6	Autoclave (AC)	Ta = 121°C, P = 29.7psia, 100%RH	96 HOURS	0/77 PCS	3 LOTS PASS
7	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: 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: **3924XXXXX**.

1st digit "3" denotes Year 2023.

2nd digit "9" denotes September.

3rd and 4th digits denote Day.

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

• **Table 1 : Affected Product Type**

Function: SCHOTTKY					
AZSB14AFC	MBR110AFC	MBR115AFC	MBR120AFC	MBR18AFC	MBR19AFC
MBR210AFC	MBR215AFC	MBR220AFC	MBR28AFC	MBR29AFC	SB12AFC
SB13AFC	SB14AFC	SB15AFC	SB16AFC	SB22AFC	SB23AFC
SB24AFC	SB25AFC	SB25UAFC	SB26AFC	SBA320AFC	SBA330AFC
SBA340AFC	SBA340AFC-NC	SR24F			
Function: ZENER Diodes					
PZ1AFC10B	PZ1AFC11B	PZ1AFC12B	PZ1AFC13B	PZ1AFC14B	PZ1AFC15B
PZ1AFC16B	PZ1AFC17B	PZ1AFC18B	PZ1AFC19B	PZ1AFC20B	PZ1AFC22B
PZ1AFC24B	PZ1AFC25B	PZ1AFC27B	PZ1AFC28B	PZ1AFC2V5B	PZ1AFC30B
PZ1AFC33B	PZ1AFC36B	PZ1AFC39B	PZ1AFC3V6B	PZ1AFC3V9B	PZ1AFC43B
PZ1AFC47B	PZ1AFC4V3B	PZ1AFC4V7B	PZ1AFC51B	PZ1AFC56B	PZ1AFC5V1B
PZ1AFC5V6B	PZ1AFC62B	PZ1AFC68B	PZ1AFC6V0B	PZ1AFC6V2B	PZ1AFC6V8B
PZ1AFC75B	PZ1AFC7V5B	PZ1AFC8V2B	PZ1AFC8V7B	PZ1AFC9V1B	
Function: Super Fast Recovery Rectifiers					
MER1DAFC	MER2DAFC	MER3DAFC			

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#2310002

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.

Function	料號	Type
SKY	AZSB14AFC_R1_000A1	AZSB14AFC
SKY	MBR110AFC_R1_00001	MBR110AFC
SKY	MBR110AFC_R2_00001	MBR110AFC
SKY	MBR115AFC_R1_00001	MBR115AFC
SKY	MBR115AFC_R2_00001	MBR115AFC
SKY	MBR120AFC_R1_00001	MBR120AFC
SKY	MBR120AFC_R2_00001	MBR120AFC
SKY	MBR18AFC_R1_00001	MBR18AFC
SKY	MBR18AFC_R2_00001	MBR18AFC
SKY	MBR19AFC_R1_00001	MBR19AFC
SKY	MBR19AFC_R2_00001	MBR19AFC
SKY	MBR210AFC_R1_00001	MBR210AFC
SKY	MBR210AFC_R2_00001	MBR210AFC
SKY	MBR215AFC_R1_00001	MBR215AFC
SKY	MBR215AFC_R2_00001	MBR215AFC
SKY	MBR220AFC_R1_00001	MBR220AFC
SKY	MBR220AFC_R2_00001	MBR220AFC
SKY	MBR28AFC_R1_00001	MBR28AFC
SKY	MBR28AFC_R2_00001	MBR28AFC
SKY	MBR29AFC_R1_00001	MBR29AFC
SKY	MBR29AFC_R2_00001	MBR29AFC
SKY	SBA320AFC_R1_00001	SBA320AFC
SKY	SBA330AFC_R1_00001	SBA330AFC
SKY	SBA340AFC-NC_R1_000A1	SBA340AFC-NC
SKY	SBA340AFC_R1_00001	SBA340AFC
SKY	SB12AFC_R1_00001	SB12AFC
SKY	SB12AFC_R2_00001	SB12AFC
SKY	SB13AFC_R1_00001	SB13AFC
SKY	SB13AFC_R2_00001	SB13AFC
SKY	SB14AFC_R1_00001	SB14AFC
SKY	SB14AFC_R2_00001	SB14AFC
SKY	SB15AFC_R1_00001	SB15AFC
SKY	SB15AFC_R2_00001	SB15AFC
SKY	SB16AFC_R1_00001	SB16AFC
SKY	SB16AFC_R2_00001	SB16AFC
SKY	SB22AFC_R1_00001	SB22AFC
SKY	SB22AFC_R2_00001	SB22AFC
SKY	SB23AFC_R2_00001	SB23AFC
SKY	SB24AFC_R1_00001	SB24AFC
SKY	SB24AFC_R2_00001	SB24AFC
SKY	SB25AFC_R1_00001	SB25AFC
SKY	SB25AFC_R2_00001	SB25AFC
SKY	SB25UAFC_R1_00001	SB25UAFC
SKY	SB25UAFC_R2_00001	SB25UAFC
SKY	SB26AFC_R1_00001	SB26AFC

SKY	SB26AFC_R2_00001	SB26AFC
SKY	SR24F_R1_000A2	SR24F
ZENER	PZ1AFC10B_R1_00001	PZ1AFC10B
ZENER	PZ1AFC11B_R1_00001	PZ1AFC11B
ZENER	PZ1AFC12B_R1_00001	PZ1AFC12B
ZENER	PZ1AFC13B_R1_00001	PZ1AFC13B
ZENER	PZ1AFC14B_R1_00001	PZ1AFC14B
ZENER	PZ1AFC15B_R1_00001	PZ1AFC15B
ZENER	PZ1AFC16B_R1_00001	PZ1AFC16B
ZENER	PZ1AFC17B_R1_00001	PZ1AFC17B
ZENER	PZ1AFC18B_R1_00001	PZ1AFC18B
ZENER	PZ1AFC19B_R1_00001	PZ1AFC19B
ZENER	PZ1AFC2V5B_R1_00001	PZ1AFC2V5B
ZENER	PZ1AFC20B_R1_00001	PZ1AFC20B
ZENER	PZ1AFC22B_R1_00001	PZ1AFC22B
ZENER	PZ1AFC24B_R1_00001	PZ1AFC24B
ZENER	PZ1AFC25B_R1_00001	PZ1AFC25B
ZENER	PZ1AFC27B_R1_00001	PZ1AFC27B
ZENER	PZ1AFC28B_R1_00001	PZ1AFC28B
ZENER	PZ1AFC3V6B_R1_00001	PZ1AFC3V6B
ZENER	PZ1AFC3V9B_R1_00001	PZ1AFC3V9B
ZENER	PZ1AFC30B_R1_00001	PZ1AFC30B
ZENER	PZ1AFC33B_R1_00001	PZ1AFC33B
ZENER	PZ1AFC36B_R1_00001	PZ1AFC36B
ZENER	PZ1AFC39B_R1_00001	PZ1AFC39B
ZENER	PZ1AFC4V3B_R1_00001	PZ1AFC4V3B
ZENER	PZ1AFC4V7B_R1_00001	PZ1AFC4V7B
ZENER	PZ1AFC43B_R1_00001	PZ1AFC43B
ZENER	PZ1AFC47B_R1_00001	PZ1AFC47B
ZENER	PZ1AFC5V1B_R1_00001	PZ1AFC5V1B
ZENER	PZ1AFC5V6B_R1_00001	PZ1AFC5V6B
ZENER	PZ1AFC51B_R1_00001	PZ1AFC51B
ZENER	PZ1AFC56B_R1_00001	PZ1AFC56B
ZENER	PZ1AFC6V0B_R1_00001	PZ1AFC6V0B
ZENER	PZ1AFC6V2B_R1_00001	PZ1AFC6V2B
ZENER	PZ1AFC6V8B_R1_00001	PZ1AFC6V8B
ZENER	PZ1AFC62B_R1_00001	PZ1AFC62B
ZENER	PZ1AFC68B_R1_00001	PZ1AFC68B
ZENER	PZ1AFC7V5B_R1_00001	PZ1AFC7V5B
ZENER	PZ1AFC75B_R1_00001	PZ1AFC75B
ZENER	PZ1AFC8V2B_R1_00001	PZ1AFC8V2B
ZENER	PZ1AFC8V7B_R1_00001	PZ1AFC8V7B
ZENER	PZ1AFC9V1B_R1_00001	PZ1AFC9V1B
SUPER	MER1DAFC_R1_00701	MER1DAFC
SUPER	MER2DAFC_R1_00701	MER2DAFC
SUPER	MER3DAFC_R1_00701	MER3DAFC