# PRODUCT / PROCESS CHANGE NOTIFICATION

Generic Copy

F	CN#2306001-A	• DATE: 20 <sup>th</sup> June, 2023
•	fication of High Den age SOD-123FL	sity Copper Leadframe for
PCN Change Categ	ory:	
■ Material	Process	□ Datasheet/Specification
Reliability		
☐ Others (	)	
Description of Cha	nge Purpose or Rea	son:
With the optimizing p	roduction efficiency a	nd process flow, PANJIT would like
to notify customer the c	hange to high density	conner leadframe for selected

With the optimizing production efficiency and process flow, PANJIT would like to notify customer the change to high density copper leadframe for selected devices of Package SOD-123FL. Along with the introduction of high density copper leadframe, the new Bill of Material(BOM), the change of de-flashing and plating process are also required. For more detail, pls refer to below change information.

The last time buy opportunity is available for current package structure for last order placement until 20th June 2024 with final shipment date of 20th December 2024.

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:

Change ca	tegory	From (C	Current)	Change to (New)	
Lead Frame	Supplier	LeFram Technology Corp. JIH LIN TECHNOLOGY CO., LTD	LeFram Technology Corp.	JIH LIN TECHNOLOGY CO., LTD	
		Three pieces with Clip	Two pieces	High Density Three pieces with Clip	
Package Structure		SOLDER PASTE  COPPER LEAD FRAME PLATED WITH THE PLATING Sum MIN.	COPPER LEAD TRAME PLATED WITH THE PLATING Sum MM.	SOLDER PASTE  SOLDER PASTE  COPPER LEAD FRAME FLATED WITH TIN FLATING Sum MN.	
	Top view	I IM2	EID	AFF	
Appearance	Back view	w	↑ w	↑ w	
	Side view		-		
Wafe Change Info					
Molding	Supplier	E'dale Techno	Table 1,2,3,4 E'dale Technology Co., LTD.		
Compound	Туре	ELER-8-500C-4		EME-G600FL	
	De-gate	Punch		Laser	
Process	De-flash	Electrolytic	Chemical De-flash		
	Plating	Rack P	Plating	Strip Plating	

### • Wafer Change Information:

Comparison Table	Table 1 Table 2		le 2		
	From (Current)	Change to (New)	From (Current)	Change to (New)	
Package Structure	Three pieces with Clip	High Density Three pieces with Clip	Three pieces with Clip	High Density Three pieces with Clip	
Wafer Thickness(um)	No ch	nange	300 310	250	
Comparison Table		Table 3		Table 4	
Do also se	From (C	Current)	Change to (New)	From (Current) Change to (New	
Package Structure	Three pieces with Clip	Two pieces	High Density Three pieces with Clip	Two pieces	High Density Three pieces with Clip
Wafer Thickness(um)	300	250	250	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:

Affected Product Type: Refer to below Table1~4.

• Effective Date: 20<sup>th</sup> December, 2023

• Last Order Date: 20th June, 2024

• Last Shipment Date: 20th December, 2024

### The reliability test results are summarized below:

Product reliability test result: PASS

No.	DESCRIPTION	TEST CONDITION	DURATION	FAILUR	ERATE
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	High Temperature Reverse Bias (HTRB)	Ta = 140°C , VR = 100%VB, DC supply	1000 HOURS	0/77 PCS	3 LOTS PASS
5	Autoclave (AC)	Ta = 121°C, P = 29.7psia ,100%RH	96 HOURS	0/77 PCS	3 LOTS PASS
6	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
7	Intermittent Forward Operation Life (I.O.L)	$\triangle T_j \ge 100 ^{\circ} \mathbb{C}$ , Power On: 2 mins ; Power Off: 2 mins.	15000 CYCLES	0/77 PCS	3 LOTS PASS
8	Temperature Humidity Storage (THS)	Ta=85°C , RH=85%	1000 CYCLES	0/77 PCS	3 LOTS PASS
9	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

#### • 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 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: 2924XXXXX.

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.

## Affected Product Type:

#### Table 1

Function: Fast Recovery Rectifiers					
RS1006FL-AU	RS1008FL-AU				
		Function: Gene	ral Purpose Rectifier	s	
GS1000FL-AU	GS1001FL-AU	GS1002FL-AU	GS1004FL-AU	GS1006FL-AU	GS1010FL-AU
Function: SCHOTTKY					
MB2H60AL-AU	SBA230AL-AU	SBA340AL-AU			
Function: Super Fast Recovery Rectifiers					
ES1006FL-AU					
Function: Ultra Fast Recovery Rectifiers					
US1008FL-AU					

#### Table 2

		Function:	SCHOTTKY		
MBR1020VL-AU	SS1020FL-AU	SS1030FL-AU	SS1040FL-AU	SS2030FL-AU	SS2040FL-AU
SS2060FL-AU	SS3040FL-F-AU	ES1002FL-AU			

#### Table 3

	Function: Super Fast	t Recovery Rectifiers	
SMF9.0A-AU			



#### Table 4

		Function: Fast F	Recovery Rectifiers		
RS1002FL-AU	RS1004FL-AU	RS1010FL-AU			
		Function: Genera	l Purpose Rectifiers		
GS1004FL-AU	GS1008FL-AU	GS1502FL-AU	GS1504FL-AU	GS1506FL-AU	GS1510FL-AU
		Function	: SCHOTTKY		
MB160AL-AU	MB1H60AL-AU	SBM260VAL-AU	SS10100FL-AU	SS10150FL-AU	SS1060FL-AU
SS1060XFL-AU	SS20100FL-AU				
		Function: Super Fa	st Recovery Rectifie	'S	
MER2DAL-AU					
		Function: Transient	: Voltage Suppresso	rs	
P2AL10A-AU	P2AL11A-AU	P2AL12A-AU	P2AL13A-AU	P2AL14A-AU	P2AL15A-AU
P2AL16A-AU	P2AL17A-AU	P2AL18A-AU	P2AL20A-AU	P2AL22A-AU	P2AL24A-AU
P2AL26A-AU	P2AL28A-AU	P2AL3.3A-AU	P2AL30A-AU	P2AL33A-AU	P2AL36A-AU
P2AL40A-AU	P2AL5.0A-AU	P2AL6.0A-AU	P2AL6.5A-AU	P2AL7.0A-AU	P2AL7.5A-AU
P2AL8.0A-AU	P2AL8.5A-AU	P2AL9.0A-AU	P4FL10A-AU	P4FL11A-AU	P4FL12A-AU
P4FL13A-AU	P4FL14A-AU	P4FL15A-AU	P4FL16A-AU	P4FL17A-AU	P4FL18A-AU
P4FL20A-AU	P4FL22A-AU	P4FL24A-AU	P4FL26A-AU	P4FL28A-AU	P4FL3.3A-AU
P4FL30A-AU	P4FL33A-AU	P4FL36A-AU	P4FL40A-AU	P4FL43A-AU	P4FL45A-AU
P4FL48A-AU	P4FL5.0A-AU	P4FL51A-AU	P4FL54A-AU	P4FL58A-AU	P4FL6.0A-AU
P4FL6.5A-AU	P4FL60A-AU	P4FL64A-AU	P4FL7.0A-AU	P4FL7.5A-AU	P4FL8.0A-AU
P4FL8.5A-AU	P4FL9.0A-AU	SMF10A-AU	SMF11A-AU	SMF12A-AU	SMF14A-AU
SMF150A-AU	SMF15A-AU	SMF16A-AU	SMF18A-AU	SMF22A-AU	SMF24A-AU
SMF26A-AU	SMF28A-AU	SMF30A-AU	SMF33A-AU	SMF36A-AU	SMF40A-AU
SMF51A-AU	SMF64A-AU	SMF8.5A-AU			
		Function: Ultra Fas	st Recovery Rectifier	S	
US1002FL-AU	US1004FL-AU	US1006FL-AU			
		Function: 2	ZENER Diodes		
BZD27C10P-AU	BZD27C11P-AU	BZD27C16P-AU	BZD27C17P-AU	BZD27C20P-AU	BZD27C28P-AU
BZD27C36P-AU	BZD27C39P-AU	BZD27C5V6P-AU	BZD27C6V0P-AU	PZ1AL10B-AU	PZ1AL11B-AU
PZ1AL12B-AU	PZ1AL13B-AU	PZ1AL14B-AU	PZ1AL15B-AU	PZ1AL16B-AU	PZ1AL17B-AU
PZ1AL18B-AU	PZ1AL19B-AU	PZ1AL20B-AU	PZ1AL22B-AU	PZ1AL24B-AU	PZ1AL25B-AU
PZ1AL27B-AU	PZ1AL28B-AU	PZ1AL30B-AU	PZ1AL33B-AU	PZ1AL36B-AU	PZ1AL39B-AU
PZ1AL3V6B-AU	PZ1AL3V9B-AU	PZ1AL43B-AU	PZ1AL47B-AU	PZ1AL4V3B-AU	PZ1AL4V7B-AU
PZ1AL51B-AU	PZ1AL56B-AU	PZ1AL5V1B-AU	PZ1AL5V6B-AU	PZ1AL62B-AU	PZ1AL68B-AU
PZ1AL6V0B-AU	PZ1AL6V2B-AU	PZ1AL6V8B-AU	PZ1AL75B-AU	PZ1AL7V5B-AU	PZ1AL8V2B-AU
PZ1AL8V7B-AU	PZ1AL9V1B-AU				

### **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# 2306001-AU
Approval for the Product/Process change:   Yes   No
Comments/Additional requests:
Chanks for your attention on this matter. Please return the acknowledgment form to your local.

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.