

PRODUCT / PROCESS CHANGE NOTIFICATION Generic Copy

Р	CN#2203005-A	• DATE: 18 th March, 2022			
PCN Subject: Change to Copper High Density Leadframe for Package SOT-523					
PCN Change Categ	jory:				
Material	Process	Datasheet/Specification			
Reliability					
Others ()			

• Description of Change Purpose or Reason:

With the optimizing production efficiency and process flow, PANJIT would like to notify customer the change to Copper high density leadframe for selected devices of Package SOT-523. Along with the introduction of Copper high density leadframe, the process change of the de-flashing and plating is also required. For more detail, pls 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.



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

Change category	Package	From (Existing)	Change to (New)	
Change category	Раскауе	SOT-523	SOT-523	
	Supplier	LeFram Technology Corp.	JIH LIN TECHNOLOGY CO., LTD	
Lead Frame (Option 1)	Material	Alloy 42	Copper	
()	Pcs/strip	768 pcs	1536 pcs	
	Top view			
Appearance	Back view			
	Side view	Gate	Gate	
Molding	Supplier	E'dale Technology Co., LTD.	SUMITOMO BAKELITE COMPANY LIMITED	
Compound	Туре	ELER-8-500C-4	EME-G600FL	
Process	De-flash	Electrolytic De-flash	Chemical De-flash	
FIUCEDD	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 :

Function	Schottky	MOSFET	Transistors	ESD Protection
	BAT54TB-AU	PJE138K-AU	MMBT2222ATB-AU	PJE5V0U8TB-AU
Туре	BAT54CTB-AU			

Effective Date : 18th September, 2022 •



> The reliability test results are summarized below:

Product reliability test result: PASS

No.	DESCRIPTION	TEST CONDITION	DURATION	FAIL	URE RATE
1	High Temperature Reverse Bias (HTRB)	Ta=150℃,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℃, 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 (I.O.L)	$\triangle Tj \ge 100^{\circ}C$, 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 ± 1 Sec	1 CYCLE	0/30 PCS	3 LOTS PASS
7	Solder ability (SD)	Temperature of solder pot = $245 \pm 5^{\circ}$ 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: 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

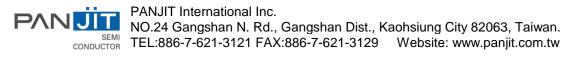
number. Please contact your local sales for tracking lot number.

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.



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: _____

PGN HUHDEL PGN# ZZUSUUS-AU	PCN number:	PCN# 2203005-AU
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Approval	for the	Product/Process	change.	Yes	
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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.