

PRODUCT / PROCESS CHANGE NOTIFICATION Generic Copy



• Description of Change Purpose or Reason:

This PCN is being issued to announce the qualification of PANJIT Semiconductor (Xuzhou) Co., Ltd (located in Jiangsu Province, China) as an alternate assembly and test site for SOT-363 selected products. The products that will be manufactured from this new assembly/test site are form, fit, and function compatible with the current qualified manufacturing sites. The qualification incorporates new bill of material (BOM) sets including the utilization of High-Density Leadframe, the change of wire type and wire diameter. For more detail, please check 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:

Accombly Site		Current	Add		
Assembly Site			PANJIT International Inc. PANJIT Semiconductor (Xuz		
Location			Kaohsiung, Taiwan	Xuzhou, China	
Material	Wire	Material / Diameter (mil)	Au / 1.0 Cu / 1.0	Cu / 0.8	
	Epoxy Molding Compound	Product Name	ELER-8-500C-84	GR640HV-L1 B18	
	Carrier Tape	Material	Polycarbonate (PC)	Polystyrene (PS)	
	Ending Tape	Material	Polyester	Paper	
		Color	Black	Yellow	
Method	Process	De-Flash	Electrolytic De-flash	Chemical De-flash	
Form	Marking	g Format	8KDH	Add bar "-" for new assembly site	

Carrier Tape	Current	Add		
Dimension		P2 + + + + + + + + + + + + + + + + + + +		
Symbol (mm)	Dimension	Dimension		
Ao	2.16 ± 0.10 2.28 ± 0.10	2.30 ± 0.10		
Ко	1.07 ± 0.10 1.10 ± 0.10	1.22 ± 0.10		
Cd	0.15 MAX.	0.20 MAX.		



• 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 unless specifically indicated.

• Affected Product Type:

Function: MOSFET 2N7002KDW

• Effective Date : 10th February, 2023



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

> The reliability test results are summarized below:

Product reliability test result: PASS

No.	DESCRIPTION	TEST CONDITION	DURATION	ATION FAILURE RATI	
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 = $260 \pm 5^{\circ}$ C Time for dipping in solder = $10 + 2/-0$ Sec	1 CYCLE	0/30 PCS	3 LOTS PASS
4	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
5	Intermittent Forward Operation Life (IFOL)	△Tj≧100°C Power On: 120 sec Power Off: 120 sec	15000 CYCLES	0/77 PCS	3 LOTS PASS
6	High Temperature Reverse Bias (HTRB)	Ta = 150°C,VR = 80%VB, DC supply	1000 HOURS	0/77 PCS	3 LOTS PASS
7	High Temperature Gate Bias (HTGB)	Tj≦Tj max, 100%VGS	1000 HOURS	0/77 PCS	3 LOTS PASS
8	Autoclave (AC)	Ta = 121°C, P = 29.7psia ,100%RH	96 HOURS	0/77 PCS	3 LOTS PASS
9	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.



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#2211002

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.