

## PRODUCT / PROCESS CHANGE NOTIFICATION

### Generic Announcement

**PCN#2501005**

• DATE: 17<sup>th</sup> January, 2025

**PCN Subject: Change Assembly Site for Package TO-252AA Series**

• **PCN Change Category:**

- Material**                       **Process**                       **Data sheet / Specification**  
 **Reliability**  
 **Others (    Change Assembly Site    )**

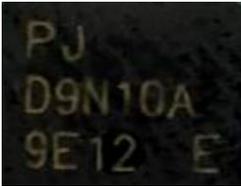
• **Description of Change Purpose or Reason:**

In order to respond to customer requirements, PANJIT will transfer the production of TO-252AA from GEM Electronics (Shanghai) Co., Ltd. to PANJIT Electronics (WUXI) Co., Ltd.

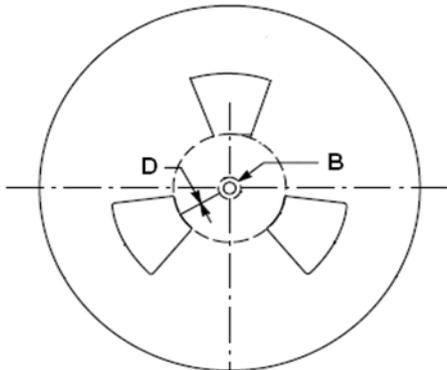
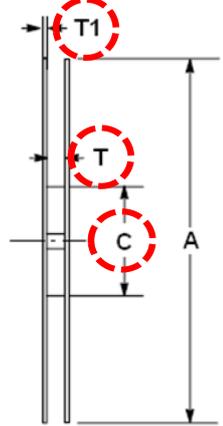
PANJIT Electronics (WUXI) Co., Ltd. has developed mature production capabilities for TO-252AA products, which can enhance our supply and service capabilities. Products manufactured at PANJIT Electronics (WUXI) Co., Ltd. are form, fit, and function compatible with those from the currently qualified sites. As part of the qualification process for PANJIT Electronics (WUXI) Co., Ltd., the suppliers of key materials for production, including the lead frame, wire, epoxy molding compound, carrier tape, and ending tape have been qualified to ensure consistent quality and performance. Please refer to the change information below.

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:**

Comparison		From (Current)	Change to (New)	
Assembly Site		GEM Electronics (Shanghai) Co., Ltd	<a href="#">PANJIT Electronics (WUXI) Co., Ltd.</a>	
Production Site Location		Shanghai, China	<a href="#">Wuxi, China</a>	
Package		TO-252AA		
Material	Lead Frame	Material	Copper	
	Wire	Material	Cu Al	
		Diameter(mil)	Φ1.5mil Φ5/8/10/12/15mil	Φ1.5mil Φ5/8/10/12/ <a href="#">16mil</a>
	Epoxy Molding Compound	Product Name	EME-E500 Series CEL-9240HF Series	<a href="#">EME-E600 Series</a>
	Carrier tape	Material	Polystyrene (PS)	<a href="#">Polycarbonate (PC)</a>
	Ending tape	Material	Paper	<a href="#">Polyester</a>
		Color	White	<a href="#">Black</a>
	Blue Anti-Static Plastic Reel			
Form	Marking Format			
	Bottom View			

● **Change Information:**

Comparison	From (Current)	Change to (New)
Assembly Site	GEM Electronics (Shanghai) Co., Ltd.	PANJIT Electronics (WUXI) Co., Ltd.
Reel (13")		
Symbol (mm)	Dimension	
C	100±1	99±1.5
T	16.5±1	17±0.6
T1	3±0.5	2 typ.

• **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: MOSFET					
PJD5N20	PJD6N10A	PJD9N10A	PJD9P06A	PJD10P10A	PJD11N06A
PJD12P06	PJD13N10A	PJD14P06A	PJD14P10A	PJD15P06A	PJD16N06A
PJD16P04	PJD16P06A	PJD18N20	PJD25N03	PJD25N06A	PJD25N10A
PJD25P03	PJD35N06A	PJD35P03	PJD40N04	PJD40N06A	PJD45N06A
PJD45P04	PJD50N04	PJD50N10AL	PJD50P04	PJD60N04	PJD70P03
PJD80N06	PJD100P04				

• **Effective Date : 17<sup>th</sup> April, 2025**

➤ **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	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
3	Solderability (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
4	Intermittent Operational Life (IOL)	$\Delta T_j \geq 100^\circ\text{C}$ Power On: 120 sec Power Off: 120 sec	15,000 CYCLES	0/77 PCS	3 Lots Pass
5	High Temperature Reverse Bias (HTRB)	Tj = Tj max, V=80%V <sub>DS</sub> , DC supply	1000 HOURS	0/77 PCS	3 Lots Pass
6	High Temperature Gate Bias (HTGB)	Tj ≤ Tj max, 100%V <sub>GS</sub>	1000 HOURS	0/77 PCS	3 Lots Pass
7	Autoclave (AC)	Ta = 121°C, P = 15psig ,100%RH	96 HOURS	0/77 PCS	3 Lots Pass
8	Highly Accelerated Stress Test (HAST)	Ta=130°C, 85%RH, 80%V <sub>R</sub>	96 HOURS	0/77 PCS	3 Lots Pass

• **ELECTRICAL CHARACTERISTICS SUMMARY:**

There is no change to the product electrical specifications.

• **SAMPLES REQUEST :**

Contact your local PANJIT sales representative.

• **TECHNICAL CONTACT :**

E-mail: [jwchen@panjit.com.tw](mailto: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: **5423XXXXX**.

1st digit "5" denotes Year 2025.

2nd digit "4" denotes April.

3rd and 4th digits denote Day.

From 5<sup>th</sup> 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# 2501005

Approval for the Product/Process change: Yes No

Comments/Additional requests:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Thanks for your attention to this matter. Please return your acknowledgment form to our local PANJIT sales representative.

Please note that no objection within 30 days upon receiving this notification will be deemed as accepted and agreed with this Process Change Notification.