

PRODUCT / PROCESS CHANGE NOTIFICATION

Generic Announcement

PCN#2501005-1

• DATE: 17th 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.

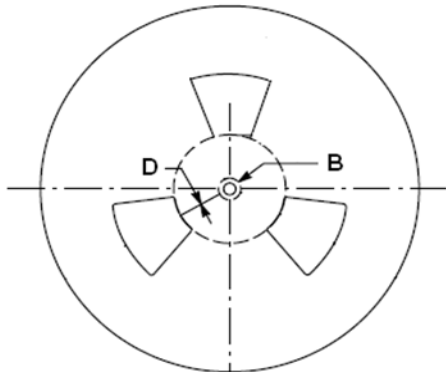
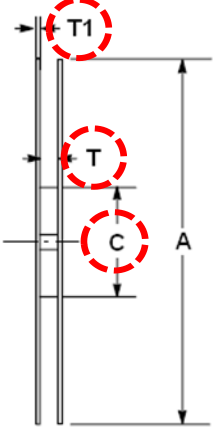
PANJIT Electronics (WUXI) Co., Ltd. has developed mature production capabilities for TO-252AA products, which can enhance our supply and service capabilities. Products manufactured at PANJIT Electronics (WUXI) Co., Ltd. are form, fit, and function compatible with those from the currently qualified sites. 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. We also change our part number from Type_L2_00001 to Type_L2_00601. 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:**

Comparison		From (Current)	Change to (New)	
Assembly Site		GEM Electronics (Shanghai) Co., Ltd	PANJIT Electronics (WUXI) Co., Ltd.	
Production Site Location		Shanghai, China	Wuxi, China	
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/ 16mil
	Epoxy Molding Compound	Product Name	EME-E500 Series CEL-9240HF Series	EME-E600 Series
	Carrier tape	Material	Polystyrene (PS)	Polycarbonate (PC)
	Ending tape	Material	Paper	Polyester
		Color	White	Black
	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.

- **Effective Date** : 17th April, 2025

● **Affected Product Type:**

Package	Function	Type	GEM Electronics (Shanghai) Co., Ltd	PANJIT Electronics (WUXI) Co., Ltd.
TO-252AA	MOSFET	PJD100P04	PJD100P04_L2_00001	PJD100P04_L2_00601
TO-252AA	MOSFET	PJD10P10A	PJD10P10A_L2_00001	PJD10P10A_L2_00601
TO-252AA	MOSFET	PJD11N06A	PJD11N06A_L2_00001	PJD11N06A_L2_00601
TO-252AA	MOSFET	PJD12P06	PJD12P06_L2_00001	PJD12P06_L2_00601
TO-252AA	MOSFET	PJD13N10A	PJD13N10A_L2_00001	PJD13N10A_L2_00601
TO-252AA	MOSFET	PJD14P06A	PJD14P06A_L2_00001	PJD14P06A_L2_00601
TO-252AA	MOSFET	PJD14P10A	PJD14P10A_L2_00001	PJD14P10A_L2_00601
TO-252AA	MOSFET	PJD15P06A	PJD15P06A_L2_00001	PJD15P06A_L2_00601
TO-252AA	MOSFET	PJD16N06A	PJD16N06A_L2_00001	PJD16N06A_L2_00601
TO-252AA	MOSFET	PJD16P04	PJD16P04_L2_00001	PJD16P04_L2_00601
TO-252AA	MOSFET	PJD16P06A	PJD16P06A_L2_00001	PJD16P06A_L2_00601
TO-252AA	MOSFET	PJD18N20	PJD18N20_L2_00001	PJD18N20_L2_00601
TO-252AA	MOSFET	PJD25N03	PJD25N03_L2_00001	PJD25N03_L2_00601
TO-252AA	MOSFET	PJD25N06A	PJD25N06A_L2_00001	PJD25N06A_L2_00601
TO-252AA	MOSFET	PJD25N10A	PJD25N10A_L2_00001	PJD25N10A_L2_00601
TO-252AA	MOSFET	PJD25P03	PJD25P03_L2_00001	PJD25P03_L2_00601
TO-252AA	MOSFET	PJD35N06A	PJD35N06A_L2_00001	PJD35N06A_L2_00601
TO-252AA	MOSFET	PJD35P03	PJD35P03_L2_00001	PJD35P03_L2_00601
TO-252AA	MOSFET	PJD40N04	PJD40N04_L2_00001	PJD40N04_L2_00601
TO-252AA	MOSFET	PJD40N06A	PJD40N06A_L2_00001	PJD40N06A_L2_00601
TO-252AA	MOSFET	PJD45N06A	PJD45N06A_L2_00001	PJD45N06A_L2_00601
TO-252AA	MOSFET	PJD45P04	PJD45P04_L2_00001	PJD45P04_L2_00601
TO-252AA	MOSFET	PJD50N04	PJD50N04_L2_00001	PJD50N04_L2_00601
TO-252AA	MOSFET	PJD50N10AL	PJD50N10AL_L2_00001	PJD50N10AL_L2_00601
TO-252AA	MOSFET	PJD50P04	PJD50P04_L2_00001	PJD50P04_L2_00601
TO-252AA	MOSFET	PJD5N20	PJD5N20_L2_00001	PJD5N20_L2_00601
TO-252AA	MOSFET	PJD60N04	PJD60N04_L2_00001	PJD60N04_L2_00601
TO-252AA	MOSFET	PJD6N10A	PJD6N10A_L2_00001	PJD6N10A_L2_00601
TO-252AA	MOSFET	PJD70P03	PJD70P03_L2_00001	PJD70P03_L2_00601
TO-252AA	MOSFET	PJD80N06	PJD80N06_L2_00001	PJD80N06_L2_00601
TO-252AA	MOSFET	PJD9N10A	PJD9N10A_L2_00001	PJD9N10A_L2_00601
TO-252AA	MOSFET	PJD9P06A	PJD9P06A_L2_00001	PJD9P06A_L2_00601

➤ **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 _{DS} , DC supply	1000 HOURS	0/77 PCS	3 Lots Pass
6	High Temperature Gate Bias (HTGB)	Tj ≤ Tj max, 100%V _{GS}	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 _R	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

● **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: **5423XXXXX**.

1st digit "5" denotes Year 2025.

2nd digit "4" denotes April.

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# 2501005-1

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.