



6133 North River Road
Suite 500
Rosemont, IL 60018 USA

August 5th, 2025

RE: PCN # ESU270-104- Additional Backend Locations Approval for SP3025-04HTG and SP3025-04HTG-1 and SP3030-04HTG and SRV05-4HTG-D

To our valued customer,

Littelfuse would like to notify you of additional approved backend locations for SP3025-04HTG and SP3025-04HTG-1 and SP3030-04HTG and SRV05-4HTG-D TVS Diode Array (SPA® Diodes) products. Two additional backend factories in China are fully approved for all assembly, test, and packing operations. There are no changes to fit, form, and function of the finished products.

The affected products will be fully qualified in accordance with established performance and reliability criteria. Samples would be provided upon your request.

Products Affected:

SOT23-6L Product List			
SP3025-04HTG	SP3025-04HTG-1	SP3030-04HTG	SRV05-4HTG-D

Form, fit, function changes: None

Part number changes: None

Effective date: Nov 5th, 2025 or sooner

Replacement products: N/A

Last time buy: N/A

This PCN is for your information and acknowledgement. If you have any other questions or concerns, please contact your local sales team or product team below for further assistance.

We value your business and look forward to assisting you whenever possible.

Best Regards,

Sophia Hu
TVS Diode Array Assistant Product Manager
Semiconductor Business Unit, Wuxi, China
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6133 North River Road Suite 500
Rosemont, IL 60018 USA
Product/Process Change Notice (PCN)

PCN# :

ESU270-104 Date: August 5th, 2025

Product Identification:

Additional Backend Locations Approval for SP3025-04HTG and SP3025-04HTG-1 and SP3030-04HTG and SRV05-4HTG-D

Implementation Date for Change:

Nov 5th, 2025 or sooner

Contact Information

Name : Sophia Hu

Title : Assistant Product Marketing Manager

Phone # : +86 13771377277

Fax# : N/A

E-mail : shu@littelfuse.com

Category of Change:

- ☐ Assembly Process
- ☐ Data Sheet
- ☐ Technology
- ☐ Discontinuance/Obsolescence
- ☐ Equipment
- ☒ Manufacturing Site
- ☒ Raw Material
- ☐ Testing
- ☐ Fabrication Process
- ☐ Other: _____

Description of Change:

Additional Backend Locations Approval for SP3025-04HTG and SP3025-04HTG-1 and SP3030-04HTG and SRV05-4HTG-D SPA™ TVS Diode Arrays products. There are no changes to fit, form, function of the finished product.

Important Dates:

- ☒ Qualification Samples Available: Upon request
- ☒ Final Qualification Data Available: Upon request
- ☐ Date of Final Product Shipment:

☐ Last Time Buy:

Method of Distinguishing Changed Product

- ☐ Product Mark,
- ☒ Date Code,
- ☒ Other, CAT NO on the label

Demonstrated or Anticipated Impact on Form, Fit, Function or Reliability:

N/A

LF Qualification Plan/Results:

Yes

Customer Acknowledgement of Receipt: Littelfuse requests you acknowledge receipt of this PCN. In your acknowledgement, you can

grant approval or request additional information. Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days

of this notice. Lack of any additional response within 90 days of PCN issuance further constitutes acceptance of the change.



Prepared By : Roger Fan-Senior Product Engineer,
Ye Xin -Product Engineer, Sophia Hu- Assistant Product Manager
Date : 2025/07/28
Device : Please refer to 2.1.
Revision : A

1.0 Objective:

Qualify alternative assembly and testing suppliers for SOT23-6L package type products. Summarize the physical items, electrical characteristics and reliability result of qualification lots.

2.0 Applicable Devices:

2.1 Product name:

SOT23-6L Product List			
SP3025-04HTG	SP3025-04HTG-1	SP3030-04HTG	SRV05-4HTG-D

3.0 Assembly, Process & Material Differences/Changes:

3.1 Assembly Changes:

No change of assemble process.

3.2 Process Changes:

No change of process method.

3.3 Material Change:

Part List	Item	Original	New	Change or not
SP3025-04HTG SP3025-04HTG-1 SP3030-04HTG	Lead frame	AgCu	AgCu	No
	Die Attach Material	84-3J	84-3J / NC9112	Yes
	Wire	Cu	PdCu	Yes
	Mold Compound	G600	GR720/G600	Yes
	Plating	Tin	Tin	No

Part List	Item	Original	New	Change or not
SRV05-4HTG-D	Lead frame	AgCu	AgCu	No
	Die Attach Material	84-1LMISR4	84-1LMISR4	No
	Wire	PdCu	Cu	Yes
	Mold Compound	G600	GR720/EK3600GL	Yes
	Plating	Tin	Tin	No

4.0 Packing Method

Item		Original	New	Change or not
Reel	Reel size	7"	7"	No
	Qty per reel	3000	3000	No
	Reel color	White	Blue	Yes

5.0 Physical Differences/Changes:

No change of the physical dimension and new pad appearance is same as the one of the original pad.

6.0 Reliability Test Results Summary:

6.1 Reliability summary report:

Test Items	Condition	S/S	Results	ETR #
Pre-conditioning (PC)	JESD22-A113	241 each lot	0/723	TR25-05-016204 TR25-05-016366 TR25-07-017771 TR25-07-017772
DC Blocking (HTRB)	Bias = VRWM, Ta = 150°C, Duration = 1008 Hours	77 each lot	0/231	
Temperature Cycle (TC)	Ta = -55°C to 150°C, Duration = 1000 Cycles	77 each lot	0/231	
Temperature/Humidity (H3TRB)	Ta = 85°C, 85% RH, Bias = VRWM, Duration = 1008 Hours	77 each lot	0/231	
Unbiased HAST (UHASt)	Ta = 130°C, 85%RH, Duration = 96 Hours	77 each lot	0/231	
Resistance to Solder Heat (RSH)	260°C, 10 sec, M-2031	10 each lot	0/30	
Moisture Sensitivity Level (MSL)	Per Jedec J-STD-020D Level 1	241 each lot	0/723	
Solderability (SD)	ANSI-J-STD-002	10 each lot	0/30	


7.0 Electrical Characteristic Summary:

Electrical performances were comparable, and characterization data is available upon request.

8.0 Changed Part Identification:

Both suppliers were qualified by Littelfuse and product can be identified by CAT NO on the label.

Barcode Scanning Result

(P)PART NO: PSPXXXX-XXXX	HF	Pb FREE
PART DESCRIPTION	CAT NO: *	
(Q)Q'TY: QXXXX	(K)PO NO: KXXXXXX	
(1T)LOT NO: 1TXXXXXX		
(1T)LOT NO:(When necessary) 1TXXXXXX		
 COUNTRY OF ORIGIN "COUNTRY" DATE CODE(MM/DD/YY)		

9.0 Approvals:

Sophia Hu
SPA Assistant Product Manager
Littelfuse, Wuxi

Roger Fan
Senior SPA Product Engineer
Littelfuse, HsinChu

Xin Ye
SPA Product Engineer
Littelfuse, Wuxi