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## Vishay Siliconix Announces New Material of Solder Paste & Stamp Clip for Commercial Power MOSFETs in PowerPAK® SO-8L Package

For further information, please contact your regional Vishay office.

### CONTACT INFORMATION

#### Americas

Vishay Siliconix  
2585 Junction Avenue,  
-  
San Jose, Ca, United States 95134  
Phone: +1-408-988-8000  
Fax: +1-408-567-8942  
-

#### Europe

Vishay Electronic GmbH  
Dr.-Felix-Zandman-Platz 1,  
-  
Selb, Germany D-95100  
Phone: +49-9287-71-0  
Fax: +49-9287-70435  
-

#### Asia

Vishay Intertechnology Asia Pte. Ltd  
37A Tampines Street 92, #07-01,  
-  
Singapore, Singapore 528886  
Phone: +65-6788-6668  
Fax: +65-6788-0988  
-

**Description of Change:** To continue the supply of target commercial power MOSFETs, Vishay Siliconix announces the new solder paste, Pb95Sn5, is

adopted in PowerPAK® SO-8L package to replace the original material, Pb88Sn10Ag2, for the yield improvement.

Besides, the stamp clip from PDE, "37-4365-1", is assembled in PowerPAK® SO-8L package with 2mil die for commercial products at Simconix. PDE

is one of the qualified suppliers of Simconix with the quality system has been certified by ISO-140001 and IATF-16949.

**Classification of Change:** Yield Improvement

**Expected Influence on Quality/Reliability/Performance:** There will be no effect on quality, reliability, performance, and the minimum/maximum

values in the datasheet. The material composition of Die-Attach will be changed accordingly as shown in the following page.

**Part Numbers/Series/Families Affected:** Please see materials list on the succeeding page.

**Vishay Brand(S):** Vishay Siliconix

**Time Schedule:**

Start Shipment Date: Mon May 15, 2023

**Sample Availability:** Please contact your regional Vishay Sales office for sample availability.

**Product Identification:** There will be no change to part numbering.

**Qualification Data:** Available upon the completion of transfer qualification testing.

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before Wed May 10, 2023 or as specified by contract.**

**Issued By:** Andrew Tsai, andrew.tsai@vishay.com



# Product Change Notification



Product Group: SIL/Fri Mar 10, 2023/PCN-SIL-014-2023-REV-0

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SIJ128LDP-T1-GE3	SIJ150DP-T1-GE3	SIJ186DP-T1-GE3	SIJ188DP-T1-GE3	SIJ438ADP-T1-GE3
SIJ438DP-T1-GE3	SIJ450DP-T1-GE3	SIJ462ADP-T1-GE3	SIJ462DP-T1-GE3	SIJ470DP-T1-GE3
SIJ478DP-T1-GE3	SIJ482DP-T1-GE3	SIJ494DP-T1-GE3	SIJA22DP-T1-GE3	SIJA52ADP-T1-GE3
SIJA52DP-T1-GE3	SIJA54ADP-T1-GE3	SIJA54DP-T1-GE3	SIJA58ADP-T1-GE3	SIJA58DP-T1-GE3
SIJA72ADP-T1-GE3				



# Product Change Notification



Product Group: Vishay Siliconix /March 10<sup>th</sup>, 2023 /PCN-SIL-014-2023-REV-0

Affected by New Solder Paste:			
SIJ128LDP-T1-GE3	SIJ150DP-T1-GE3	SIJ186DP-T1-GE3	SIJ188DP-T1-GE3
SIJ438ADP-T1-GE3	SIJ438DP-T1-GE3	SIJ450DP-T1-GE3	SIJ462ADP-T1-GE3
SIJ462DP-T1-GE3	SIJ470DP-T1-GE3	SIJ478DP-T1-GE3	SIJ482DP-T1-GE3
SIJ494DP-T1-GE3	SIJA22DP-T1-GE3	SIJA52ADP-T1-GE3	SIJA52DP-T1-GE3
SIJA54ADP-T1-GE3	SIJA54DP-T1-GE3	SIJA58ADP-T1-GE3	SIJA58DP-T1-GE3
SIJA72ADP-T1-GE3			

Part Adopts PDE Stamp Clip:			
SIJA54DP-T1-GE3			

**EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:** There will be no effect on quality, reliability, performance, and the minimum/maximum values in the datasheet.

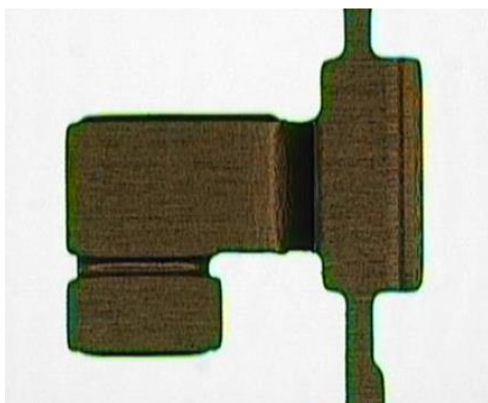
The material composition of Die-Attach will be changed accordingly as shown below:

Example of SIJA54DP-T1-GE3:

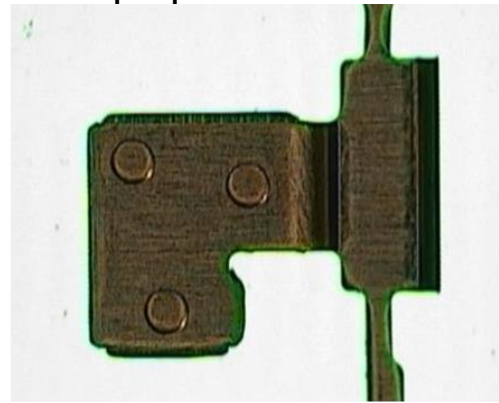
	Substance	CAS Number	Weight of Substance (mg)	With Respect to Homogenous Material (ppm)	With Respect to Total Product Weight (%)
<b>Before</b>	Lead*	7439-92-1	2.64000	880000	2.59 %
	Tin	7440-31-5	0.30000	100000	0.29 %
	Silver	7440-22-4	0.06000	20000	0.06 %
<b>After</b>	Lead*	7439-92-1	2.85000	950000	2.79 %
	Tin	7440-31-5	0.15000	50000	0.15 %
	Silver	7440-22-4	0.00000	0	0.00 %

\*ROHS Exemptions Used: 7(a)

The Pictures of “37-4365-1” for SDI Etch Clip and PDE Stamp Clip:



SDI Etch Clip



PDE Stamp Clip

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 [www.vishay.com](http://www.vishay.com)

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