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Product Change Notification



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

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.

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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



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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				



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

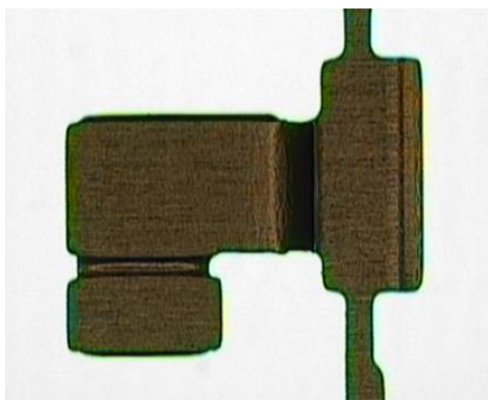
The material composition of Die-Attach will be changed accordingly as shown below:

Example of SIJA54DP-T1-GE3:

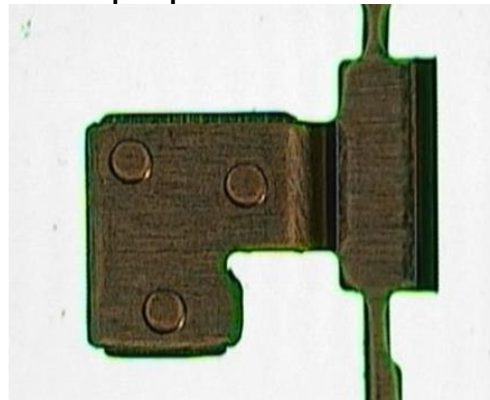
	Substance	CAS Number	Weight of Substance (mg)	With Respect to Homogenous Material (ppm)	With Respect to Total Product Weight (%)
Before	Lead*	7439-92-1	2.64000	880000	2.59 %
	Tin	7440-31-5	0.30000	100000	0.29 %
	Silver	7440-22-4	0.06000	20000	0.06 %
After	Lead*	7439-92-1	2.85000	950000	2.79 %
	Tin	7440-31-5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

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Procedure #