

Note: This PCN is issued by Sharp Devices Europe, other SHARP business units might have different schedules.

Product Change Notification

NOTIFICATION NO.	ISSUE DATE	LAST BUY DATE	LAST SHIP DATE
EU-PCN-20220413-02	13.10.2022	---	---

This is to advise you that the following product will be changed.

Product ID (Description):

SOP 4/5 pin type Photocoupler and Phototriac Coupler (36 models)
- please see the attached list for affected part numbers

Type	Series name
Transistor output	PC35*/PC36*/PC452 series
IC output	PC400/PC410L/PC457L series
Triac output	S2S* series

Description of Change:

Due to material shortages of materials manufactured by YONGYAO ENSEI ELECTRONICS (SHANGQIU) CO., LTD which are used in the above mentioned photocouplers and phototriac couplers, additional materials will be sourced and used to stabilize our supply.

Detail of changes:

Addition of LED chip and resin.

Rev. 1: There are some changes as follows:

Cancellation of the addition of the following additional production parts and review of the schedule accordingly.

1) IC output type (only PC457L series) : Withdrawal of addition of LED chip.

2) Transistor / Triac output type : Withdrawal of addition of 1st mold resin.

Please refer to the attached "Detail of Model List and added materials" as well as the Supplementary Document.

Effect of Change:

This is planned as a running change, starting with **December 2022 production** (depending on inventory & purchase orders).

Note:

There are no changes to the products' optical and electrical characteristics, dimensions and reliability.

Suggested Alternative Parts and/or Manufactures:

CHANGED SHARP PART NO.	SUCCESSOR / SUGGESTED ALTERNATE PART NO.	ALTERNATE MANUFACTURER
please see the attached list for affected part numbers		---

In case of further questions, please contact your SHARP sales representative.

【Detail of Model List and added materials】

1 . Transistor output

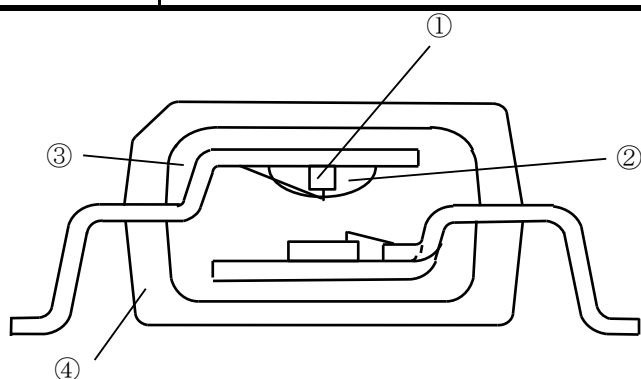
Model No.	Added materials
PC354NJ0000F	Silicone resin 1st mold resin 2nd mold resin
PC354N1J000F	
PC355NJ0000F	
PC357NJ0000F	
PC357N1J000F	
PC357N2J000F	
PC357N3J000F	
PC357N4J000F	
PC357N5J000F	
PC357N6J000F	
PC357N7J000F	
PC357N8J000F	
PC357N9J000F	
PC357NJ0000F	
PC365NJ0000F	
PC367NJ0000F	
PC367N1J000F	
PC367N2J000F	
PC451J00000F	
PC452J00000F	

2 . IC output

Model No.	Added materials
PC400J00000F	Silicone resin, 1st mold resin, 2nd mold resin
PC410LEYIP0F	LED(Applied), Silicone resin 1st mold resin, 2nd mold resin
PC410LENIP0F	
PC457L0NIP0F	LED , Silicone resin 1st mold resin, 2nd mold resin
PC457LRNIP0F	
PC457L0YIP0F	

3 . Triac output

Model No.	Added materials
S2S3A00F	Silicone resin 1st mold resin 2nd mold resin
S2S3AD0F	
S2S3LA0F	
S2S3ADYF	
S2S4A00F	
S2S4AY0F	
S2S4EY0F	
S2S5A00F	
S2S5FA0F	
S2S5EY0F	



- ① LED : Proven supplier, will be adopted in other models.
- ② Silicone resin : Same supplier, be adopted in other models.
- ③ 1st mold resin : Another supplier, be adopted in other models.
- ④ 2nd mold resin : Another supplier, be adopted in other models.



Be Original.

SHARP Products Change Notification Supplementary Document

SHARP Semiconductor Innovation Corporation

2022/10/3

Detail of modification (Transistor output type)

Reason of withdrawing from addition of 1st mold resin
⇒ Customer are worried about the effect on performance due to the multiple combinations, and also to resolve the supply insecurity issues, we will cancel the addition of the 1st mold resin.

Before

Model No.	Added materials
PC354NJ0000F	Silicone resin 1st mold resin 2nd mold resin
PC354N1J000F	
PC355NJ0000F	
PC357NJ0000F	
PC357N1J000F	
PC357N2J000F	
PC357N3J000F	
PC357N4J000F	
PC357N5J000F	
PC357N6J000F	
PC357N7J000F	
PC357N8J000F	
PC357N9J000F	
PC357NJ0000F	
PC365NJ0000F	
PC367NJ0000F	
PC367N1J000F	
PC367N2J000F	
PC451J00000F	
PC452J00000F	

After

Added materials
Silicone resin 1st mold resin 2nd mold resin

① LED

② Silicone resin

③ 1st mold resin

④ 2nd mold resin

Withdraw

addition of 1st mold resin

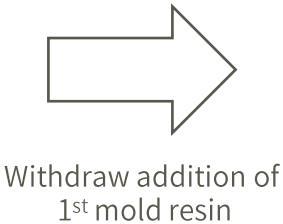
Detail of modification (IC output type)

Reason of withdrawing from addition of LED chip (PC457L series)

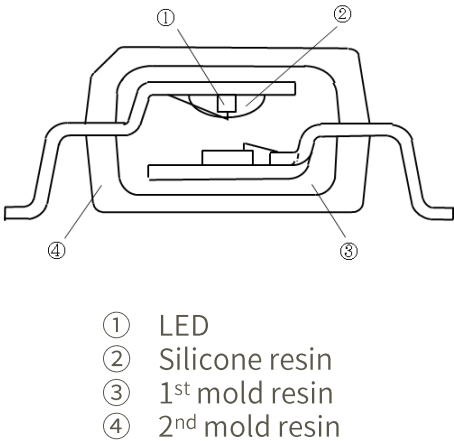
⇒ We found that the value of current transfer ratio (CTR) was higher than expected when an additional light-emitting chip was used in the PC457L series.

If adopted, it will be necessary to change the upper limit of the specification, and we have determined that it may cause inconvenience to the customer's design, so we will remove the addition of the light-emitting chip. For the PC400 series and PC410LE series, we have judged that the same characteristics can be secured even after the addition of materials, so we will adopt them as planned.

Before	
Model No.	Added materials
PC400J00000F	Silicone resin, 1st mold resin, 2nd mold resin
PC410LEYIP0F	LED(Applied), Silicone resin 1st mold resin, 2nd mold resin
PC410LENIP0F	
PC457L0NIP0F	LED, Silicone resin 1st mold resin, 2nd mold resin
PC457LRNIP0F	
PC457L0YIP0F	



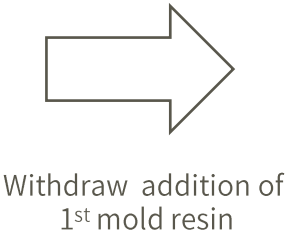
After	
Added materials	
Silicone resin, 1st mold resin, 2nd mold resin	
LED(Applied), Silicone resin 1st mold resin, 2nd mold resin	
LED , Silicone resin 1st mold resin, 2nd mold resin	



Detail of modification (Triac output type)

Reason of withdrawing from addition of 1st mold resin
⇒ Customer are worried about the effect on performance due to the multiple combinations, and also to resolve the supply insecurity issues, we will cancel the addition of the 1st mold resin.

Before	
Model No.	Added materials
S2S3A00F	Silicone resin 1st mold resin 2nd mold resin
S2S3AD0F	
S2S3LA0F	
S2S3ADYF	
S2S4A00F	
S2S4AY0F	
S2S4EY0F	
S2S5A00F	
S2S5FA0F	
S2S5EY0F	



After	
Added materials	
Silicone resin 1st mold resin 2nd mold resin	

