

Phototriaccoupler Lead-free replacement list October 2005

\*These models in this list show the common and widely-distributed products as the leaded type.

If you can not find out the model you are looking for, or not know the current production status of lead-free models, please contact a local SHARP sales representative.

Leaded part No.	Lead-free availability	Lead-free part No.	Outline	Solder Material	Soldering Condition
PC2SD11NTZA	Yes	PC2SD11NTZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC2SD11NXPA	Yes	PC2SD11NXPAF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD11NTZA	Yes	PC3SD11NTZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11NTZB	Yes	PC3SD11NTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11NTZC	Yes	PC3SD11NTZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11NXPC	Yes	PC3SD11NXPCF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD11NXZB	Yes	PC3SD11NXZBF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD11NXZC	Yes	PC3SD11NXZCF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD11YTZA	Yes	PC3SD11YTZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11YTZB	Yes	PC3SD11YTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11YTZC	Yes	PC3SD11YTZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11YVZC	Yes	PC3SD11YVZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD11YXPB	Yes	PC3SD11YXPBF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD11YXPC	Yes	PC3SD11YXPCF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD12NTZA	Yes	PC3SD12NTZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD12NXZA	Yes	PC3SD12NXZAF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD21NTZB	Yes	PC3SD21NTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD21NTZC	Yes	PC3SD21NTZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD21NTZD	Yes	PC3SD21NTZDF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD21NXZC	Yes	PC3SD21NXZCF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD21YTZB	Yes	PC3SD21YTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD21YTZC	Yes	PC3SD21YTZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD21YTZD	Yes	PC3SD21YTZDF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SD21YXPC	Yes	PC3SD21YXPCF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD21YXPD	Yes	PC3SD21YXPDF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD21YXZC	Yes	PC3SD21YXZCF	DIP6pin SMD	Sn-Cu	See appendix
PC3SD21YXZD	Yes	PC3SD21YXZDF	DIP6pin SMD	Sn-Cu	See appendix
PC3SF11YTZB	Yes	PC3SF11YTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SF11YVZA	Yes	PC3SF11YVZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SF11YVZB	Yes	PC3SF11YVZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SF11YWPB	Yes	PC3SF11YWPBF	DIP6pin SMD	Sn-Cu	See appendix
PC3SF11YXPB	Yes	PC3SF11YXPBF	DIP6pin SMD	Sn-Cu	See appendix
PC3SF21YTZB	Yes	PC3SF21YTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SF21YVZA	Yes	PC3SF21YVZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SF21YVZB	Yes	PC3SF21YVZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC3SG11YIZ	Yes	PC3SG11YIZ0F	SOP4pin SMD	Sn-Cu	See appendix
PC3SG21YIZ	Yes	PC3SG21YIZ0F	SOP4pin SMD	Sn-Cu	See appendix
PC3SH11YFZA	Yes	PC3SH11YFZAF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3SH11YSZA	Yes	PC3SH11YSZAF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3SH13YFZA	Yes	PC3SH13YFZAF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3SH21YFZB	Yes	PC3SH21YFZBF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3ST11NSZA	Yes	PC3ST11NSZAF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3ST11NSZB	Yes	PC3ST11NSZBF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3ST21NFZB	Yes	PC3ST21NFZBF	DIP4pin Through-hole	Sn-Cu	See appendix
PC3ST21NSZC	Yes	PC3ST21NSZCF	DIP4pin Through-hole	Sn-Cu	See appendix
PC4SD11NTZB	Yes	PC4SD11NTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SD11NTZC	Yes	PC4SD11NTZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SD11YXPB	Yes	PC4SD11YXPBF	DIP6pin SMD	Sn-Cu	See appendix
PC4SD11YXPC	Yes	PC4SD11YXPCF	DIP6pin SMD	Sn-Cu	See appendix
PC4SD21NTZC	Yes	PC4SD21NTZCF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SD21NTZD	Yes	PC4SD21NTZDF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SD21NXZC	Yes	PC4SD21NXZCF	DIP6pin SMD	Sn-Cu	See appendix
PC4SD21YXPC	Yes	PC4SD21YXPCF	DIP6pin SMD	Sn-Cu	See appendix
PC4SD21YXPD	Yes	PC4SD21YXPDF	DIP6pin SMD	Sn-Cu	See appendix
PC4SF11YTZB	Yes	PC4SF11YTZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SF11YVZA	Yes	PC4SF11YVZAF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SF11YVZB	Yes	PC4SF11YVZBF	DIP6pin Through-hole	Sn-Cu	See appendix
PC4SF21YTZC	Yes	PC4SF21YTZCF	DIP6pin Through-hole	Sn-Cu	See appendix

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Leaded part No.	Lead-free availability	Lead-free part No.	Outline	Solder Material	Soldering Condition
PC4SF21YVZC	Yes	PC4SF21YVZCF	DIP6pin Through-hole	Sn-Cu	See appendix
S2S3	Yes	S2S3000F	SOP4pin SMD	Sn-Cu	See appendix
S2S3A	Yes	S2S3A00F	SOP4pin SMD	Sn-Cu	See appendix
S2S3AY	Yes	S2S3AY0F	SOP4pin SMD	Sn-Cu	See appendix
S2S3B	Yes	S2S3B00F	SOP4pin SMD	Sn-Cu	See appendix
S2S3LA	Yes	S2S3LA0F	SOP4pin SMD	Sn-Cu	See appendix
S2S3LB	Yes	S2S3LB0F	SOP4pin SMD	Sn-Cu	See appendix
S2S3LY	Yes	S2S3LY0F	SOP4pin SMD	Sn-Cu	See appendix
S2S3RY	Yes	S2S3RY0F	SOP4pin SMD	Sn-Cu	See appendix
S2S3Y	Yes	S2S3Y00F	SOP4pin SMD	Sn-Cu	See appendix
S2S4	Yes	S2S4000F	SOP4pin SMD	Sn-Cu	See appendix
S2S4A	Yes	S2S4A00F	SOP4pin SMD	Sn-Cu	See appendix
S2S4B	Yes	S2S4B00F	SOP4pin SMD	Sn-Cu	See appendix
S2S4BY	Yes	S2S4BY0F	SOP4pin SMD	Sn-Cu	See appendix
S2S4LY	Yes	S2S4LY0F	SOP4pin SMD	Sn-Cu	See appendix
S2S4RA	Yes	S2S4RA0F	SOP4pin SMD	Sn-Cu	See appendix
S2S5A	Yes	S2S5A00F	SOP4pin SMD	Sn-Cu	See appendix

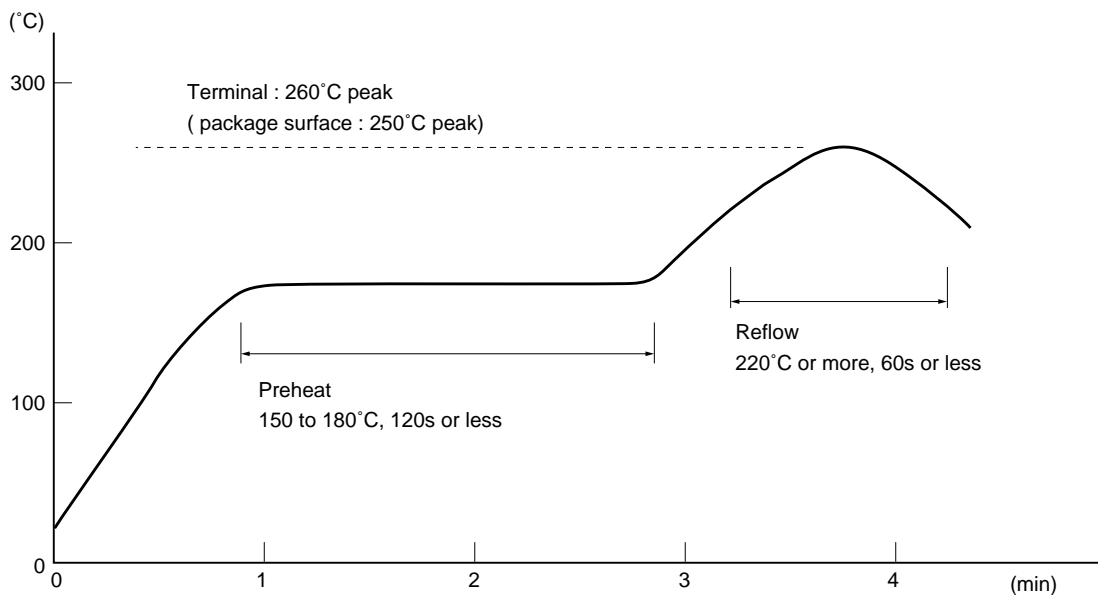
## ■ Phototriaccoupler : Lead-free part soldering conditions SOP4pin

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### ● Soldering Method

#### Reflow Soldering:

Reflow soldering should follow the temperature profile shown below.  
Soldering should not exceed the curve of temperature profile and time.  
Please don't solder more than twice.



#### Flow Soldering :

Due to SHARP's double transfer mold construction submersion in flow solder bath is allowed under the below listed guidelines.

Flow soldering should be completed below 260°C and within 10s.

Preheating is within the bounds of 100 to 150°C and 30 to 80s.

Please don't solder more than twice.

#### Hand soldering

Hand soldering should be completed within 3s when the point of solder iron is below 400°C.

Please don't solder more than twice.

#### Other notices

Please test the soldering method in actual condition and make sure the soldering works fine, since the impact on the junction between the device and PCB varies depending on the tooling and soldering conditions.

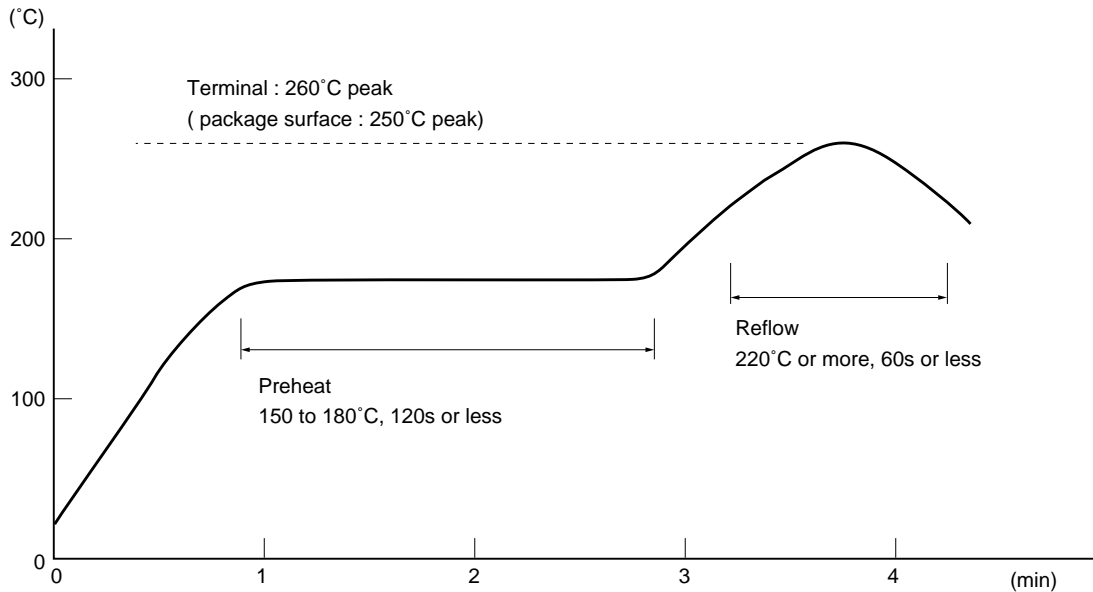
## ■ Phototriaccoupler : Lead-free part soldering conditions DIP4pin(SMD) / DIP6pin(SMD)

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### ● Soldering Method

#### Reflow Soldering:

Reflow soldering should follow the temperature profile shown below.  
Soldering should not exceed the curve of temperature profile and time.  
Please don't solder more than twice.



#### Flow Soldering :

Due to SHARP's double transfer mold construction submersion in flow solder bath is allowed under the below listed guidelines.

Flow soldering should be completed below 270°C and within 10s.  
Preheating is within the bounds of 100 to 150°C and 30 to 80s.  
Please don't solder more than twice.

#### Hand soldering

Hand soldering should be completed within 3s when the point of solder iron is below 400°C.  
Please don't solder more than twice.

#### Other notices

Please test the soldering method in actual condition and make sure the soldering works fine, since the impact on the junction between the device and PCB varies depending on the tooling and soldering conditions.