

Photocoupler 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
PC12310NSZ	Yes	PC12310NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC12310YFZ	Yes	PC12310YFZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC12311NSZ	Yes	PC12311NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC12311YFZ	Yes	PC12311YFZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC123A	Yes	PC123AJ0000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123B	Yes	PC123BJ0000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123C	Yes	PC123CJ0000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123F1	Yes	PC123F1J000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123F2	Yes	PC123F2J000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123F	Yes	PC123FJ0000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY1	Yes	PC123FY1J00F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY2	Yes	PC123FY2J00F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY3	Yes	PC123FY3J00F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY5	Yes	PC123FY5J00F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY6	Yes	PC123FY6J00F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY8	Yes	PC123FY8J00F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123FY	Yes	PC123FYJ000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123	Yes	PC123J00000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123P2	Yes	PC123P2J000F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123P5	Yes	PC123P5J000F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123P	Yes	PC123PJ0000F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123PY2	Yes	PC123PY2J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123PY6	Yes	PC123PY6J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123S	Yes	PC123SJ0000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123Y1	Yes	PC123Y1J000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123Y2	Yes	PC123Y2J000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123Y5	Yes	PC123Y5J000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123Y	Yes	PC123YJ0000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123YS	Yes	PC123YSJ000F	DIP4pin Through-hole	Sn-Cu (*)	See appendix
PC123ZY1	Yes	PC123ZY1J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123ZY2	Yes	PC123ZY2J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123ZY5	Yes	PC123ZY5J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123ZY8	Yes	PC123ZY8J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC123ZY	Yes	PC123ZYJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC352NT	Yes	PC352NTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC353T	Yes	PC353TJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC354N1	Yes	PC354N1J000F	SOP4pin SMD	Sn-Cu	See appendix
PC354N1T	Yes	PC354N1TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC354N	Yes	PC354NJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC354NT	Yes	PC354NTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC355N	Yes	PC355NJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC355NT	Yes	PC355NTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N0T	Yes	PC357N0TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N1	Yes	PC357N1J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N1T	Yes	PC357N1TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N2	Yes	PC357N2J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N2T	Yes	PC357N2TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N3	Yes	PC357N3J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N3T	Yes	PC357N3TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N4	Yes	PC357N4J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N4T	Yes	PC357N4TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N5	Yes	PC357N5J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N5T	Yes	PC357N5TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N6	Yes	PC357N6J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N6T	Yes	PC357N6TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N7	Yes	PC357N7J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N7T	Yes	PC357N7TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N9	Yes	PC357N9J000F	SOP4pin SMD	Sn-Cu	See appendix
PC357N9T	Yes	PC357N9TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC357N	Yes	PC357NJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC357NT	Yes	PC357NTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC364N1	Yes	PC364N1J000F	SOP4pin SMD	Sn-Cu	See appendix
PC364N	Yes	PC364NJ0000F	SOP4pin SMD	Sn-Cu	See appendix

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Leaded part No.	Lead-free availability	Lead-free part No.	Outline	Solder Material	Soldering Condition
PC364NT	Yes	PC364NTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC365N	Yes	PC365NJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC367M	Yes	PC367MJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC367MT	Yes	PC367MTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC367N1	Yes	PC367N1J000F	SOP4pin SMD	Sn-Cu	See appendix
PC367N1T	Yes	PC367N1TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC367N2	Yes	PC367N2J000F	SOP4pin SMD	Sn-Cu	See appendix
PC367N2T	Yes	PC367N2TJ00F	SOP4pin SMD	Sn-Cu	See appendix
PC367N	Yes	PC367NJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC367NT	Yes	PC367NTJ000F	SOP4pin SMD	Sn-Cu	See appendix
PC3H2B	Yes	PC3H2BJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H2	Yes	PC3H2J00000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H3A	Yes	PC3H3AJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H3	Yes	PC3H3J00000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H410NIP	Yes	PC3H410NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H411NIP	Yes	PC3H411NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H4A	Yes	PC3H4AJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H4	Yes	PC3H4J00000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H4Y	Yes	PC3H4YJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H510NIP	Yes	PC3H510NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H5	Yes	PC3H5J00000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H710NIP	Yes	PC3H710NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H711NIP	Yes	PC3H711NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H712NIP	Yes	PC3H712NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H715NIP	Yes	PC3H715NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7AB	Yes	PC3H7ABJ000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7AC	Yes	PC3H7ACJ000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7AD	Yes	PC3H7ADJ000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7A	Yes	PC3H7AJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7BC	Yes	PC3H7BCJ000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7BD	Yes	PC3H7BDJ000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7B	Yes	PC3H7BJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7CD	Yes	PC3H7CDJ000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7C	Yes	PC3H7CJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7D	Yes	PC3H7DJ0000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3H7	Yes	PC3H7J00000F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q410NIP	Yes	PC3Q410NIP0F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q510NIP	Yes	PC3Q510NIP0F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q63	Yes	PC3Q63J0000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q64	Yes	PC3Q64J0000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q64Q	Yes	PC3Q64QJ000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q65	Yes	PC3Q65J0000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q66Q	Yes	PC3Q66QJ000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q67	Yes	PC3Q67J0000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q67Q7	Yes	PC3Q67Q7J00F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q67Q	Yes	PC3Q67QJ000F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q710NIP	Yes	PC3Q710NIP0F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC3Q711NIP	Yes	PC3Q711NIP0F	SOP16pin SMD Half-pitch lead	Sn-Cu	See appendix
PC400	Yes	PC400J00000F	SOP4pin SMD	Sn-Cu	See appendix
PC400T	Yes	PC400TJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC401	Yes	PC401J00000F	SOP4pin SMD	Sn-Cu	See appendix
PC401T	Yes	PC401TJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC401Z	Yes	PC401ZJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC410L0NIP	Yes	PC410L0NIP0F	SOP4pin SMD	Sn-Cu	See appendix
PC410L0YIP	Yes	PC410L0YIP0F	SOP4pin SMD	Sn-Cu	See appendix
-	Yes	PC410S0NIP0F	SOP8pin SMD	Pd(Au flash)	See appendix
PC411L0NIP	Yes	PC411L0NIP0F	SOP4pin SMD	Sn-Cu	See appendix
PC411L0YIP	Yes	PC411L0YIP0F	SOP4pin SMD	Sn-Cu	See appendix
-	Yes	PC412S0NIP0F	SOP8pin SMD	Pd(Au flash)	See appendix
PC451	Yes	PC451J00000F	SOP4pin SMD	Sn-Cu	See appendix
PC451T	Yes	PC451TJ0000F	SOP4pin SMD	Sn-Cu	See appendix
PC452	Yes	PC452J00000F	SOP4pin SMD	Sn-Cu	See appendix
PC452T	Yes	PC452TJ0000F	SOP4pin SMD	Sn-Cu	See appendix

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PC456L0NIP	Yes	PC456L0NIP0F	SOP4pin SMD	Sn-Cu	See appendix
-	Yes	PC456L0YIP0F	SOP4pin SMD	Sn-Cu	See appendix
PC457L0NIP	Yes	PC457L0NIP0F	SOP4pin SMD	Sn-Cu	See appendix
PC457L0YIP	Yes	PC457L0YIP0F	SOP4pin SMD	Sn-Cu	See appendix
-	Yes	PC457S0NIP0F	SOP8pin SMD	Pd(Au flash)	See appendix
PC4D100NIP	Yes	PC4D100NIP0F	SOP8pin SMD	Sn-Cu	See appendix
PC4D570NIP	Yes	PC4D570NIP0F	SOP8pin SMD	Sn-Cu	See appendix
PC4H510NIP	Yes	PC4H510NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC4H520NIP	Yes	PC4H520NIP0F	SOP4pin SMD Half-pitch lead	Sn-Cu	See appendix
PC512	Yes	PC512J0000F	SIP4pin Through-hole	Sn-Ag-Cu	See appendix
PC713V0NSZX	Yes	PC713V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC713V0YSZX	Yes	PC713V0YSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC713V1NSZX	Yes	PC713V1NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
-	Yes	PC713V2NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC713V3NSZX	Yes	PC713V3NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC713V6NSZX	Yes	PC713V6NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC714V0NSZX	Yes	PC714V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC714V0YSZX	Yes	PC714V0YSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC714V1NSZX	Yes	PC714V1NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC714V3NSZX	Yes	PC714V3NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC714V3YSZX	Yes	PC714V3YSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC715V0NSZX	Yes	PC715V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC715V0YSZX	Yes	PC715V0YSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC724V0NIPX	Yes	PC724V0NIPXF	DIP6pin SMD	Sn-Cu	See appendix
PC724V0NSZX	Yes	PC724V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC725V0NIPX	Yes	PC725V0NIPXF	DIP6pin SMD	Sn-Cu	See appendix
PC725V0NIZX	Yes	PC725V0NIZXF	DIP6pin SMD	Sn-Cu	See appendix
PC725V0NSZX	Yes	PC725V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC725V0YIPX	Yes	PC725V0YIPXF	DIP6pin SMD	Sn-Cu	See appendix
PC725V0YIZX	Yes	PC725V0YIZXF	DIP6pin SMD	Sn-Cu	See appendix
PC725V0YSZX	Yes	PC725V0YSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC725V0YUZX	Yes	PC725V0YUZXF	DIP6pin Wide SMD	Sn-Cu	See appendix
PC733H	Yes	PC733HJ0000F	DIP6pin Through-hole	Sn-Cu	See appendix
PC733	Yes	PC733J0000F	DIP6pin Through-hole	Sn-Cu	See appendix
PC81100NSZ	Yes	PC81100NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81101NSZ	Yes	PC81101NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81102NSZ	Yes	PC81102NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81103NSZ	Yes	PC81103NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81105NSZ	Yes	PC81105NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81106NSZ	Yes	PC81106NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81108NSZ	Yes	PC81108NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81410NSZ	Yes	PC81410NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81411NIP	Yes	PC81411NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81411NSZ	Yes	PC81411NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC814X1	Yes	PC814X1J000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC814X	Yes	PC814XJ000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC814XP1	Yes	PC814XP1J00F	DIP4pin SMD	Sn-Cu	See appendix
PC814XP	Yes	PC814XPJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC81510NSZ	Yes	PC81510NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
-	Yes	PC815XJ0000F	DIP4pin Through-hole	Sn-Cu	See appendix
-	Yes	PC815XYJ000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81710NIP	Yes	PC81710NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81710NSZ	Yes	PC81710NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81711NIP	Yes	PC81711NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81711NSZ	Yes	PC81711NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81712NIP	Yes	PC81712NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81712NSZ	Yes	PC81712NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81713NIP	Yes	PC81713NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81713NSZ	Yes	PC81713NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81716NIP	Yes	PC81716NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81716NSZ	Yes	PC81716NSZ0F	DIP4pin Through-hole	Sn-Cu	See appendix
PC81718NIP	Yes	PC81718NIP0F	DIP4pin SMD	Sn-Cu	See appendix
PC81718NSZ	Yes	PC81718NSZ0F	DIP4pin 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
PC817X0	Yes	PC817X0J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X1	Yes	PC817X1J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X2	Yes	PC817X2J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X3	Yes	PC817X3J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X4	Yes	PC817X4J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X5	Yes	PC817X5J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X6	Yes	PC817X6J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X7	Yes	PC817X7J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X8	Yes	PC817X8J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817X9	Yes	PC817X9J000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817XF2	Yes	PC817XF2J00F	DIP4pin Wide Through-hole	Sn-Cu (*)	See appendix
PC817XF3	Yes	PC817XF3J00F	DIP4pin Wide Through-hole	Sn-Cu (*)	See appendix
PC817XF5	Yes	PC817XF5J00F	DIP4pin Wide Through-hole	Sn-Cu (*)	See appendix
PC817XF	Yes	PC817XFJ000F	DIP4pin Wide Through-hole	Sn-Cu (*)	See appendix
PC817XFP	Yes	PC817XFPJ00F	DIP4pin Wide SMD	Sn-Cu (*)	See appendix
PC817XI1	Yes	PC817XI1J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XI2	Yes	PC817XI2J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XI3	Yes	PC817XI3J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XI4	Yes	PC817XI4J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XI	Yes	PC817XIJ000F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817X	Yes	PC817XJ0000F	DIP4pin Through-hole	Sn-Cu (*) (or Sn-Bi: product of Indonesia)	See appendix
PC817XP1	Yes	PC817XP1J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP2	Yes	PC817XP2J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP3	Yes	PC817XP3J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP4	Yes	PC817XP4J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP5	Yes	PC817XP5J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP6	Yes	PC817XP6J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP7	Yes	PC817XP7J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP9	Yes	PC817XP9J00F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC817XP	Yes	PC817XPJ000F	DIP4pin SMD	Sn-Cu (*)	See appendix
PC844X1	Yes	PC844X1J000F	DIP16pin Through-hole	Sn-Cu	See appendix
PC844X	Yes	PC844XJ0000F	DIP16pin Through-hole	Sn-Cu	See appendix
-	Yes	PC845XJ0000F	DIP16pin Through-hole	Sn-Cu	See appendix
PC847X5	Yes	PC847X5J000F	DIP16pin Through-hole	Sn-Cu	See appendix
PC847X7	Yes	PC847X7J000F	DIP16pin Through-hole	Sn-Cu	See appendix
PC847X9	Yes	PC847X9J000F	DIP16pin Through-hole	Sn-Cu	See appendix
PC847XI	Yes	PC847XIJ000F	DIP16pin SMD	Sn-Cu	See appendix
PC847X	Yes	PC847XJ0000F	DIP16pin Through-hole	Sn-Cu	See appendix
PC851XI	Yes	PC851XIJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC851X	Yes	PC851XJ0000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC851XP	Yes	PC851XPJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC852XI	Yes	PC852XIJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC852X	Yes	PC852XJ0000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC852XP	Yes	PC852XPJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC852XY	Yes	PC852XYJ000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC853XI	Yes	PC853XIJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC853X	Yes	PC853XJ0000F	DIP4pin Through-hole	Sn-Cu	See appendix
PC853XP	Yes	PC853XPJ000F	DIP4pin SMD	Sn-Cu	See appendix
PC900V0NIPX	Yes	PC900V0NIPXF	DIP6pin SMD	Sn-Cu	See appendix
PC900V0NIZX	Yes	PC900V0NIZXF	DIP6pin SMD	Sn-Cu	See appendix
PC900V0NSZN	Yes	PC900V0NSZNF	DIP6pin Through-hole	Sn-Cu	See appendix
PC900V0NSZX	Yes	PC900V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC900V0YSZX	Yes	PC900V0YSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC901V0NSZX	Yes	PC901V0NSZXF	DIP6pin Through-hole	Sn-Cu	See appendix
PC910L0YIP0	Yes	PC910L0YIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC923L0NIP	Yes	PC923L0NIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC923L0NSZ	Yes	PC923L0NSZ0F	DIP8pin Through-hole	Sn-Cu	See appendix
PC923L0YIP	Yes	PC923L0YIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC924L0NIP	Yes	PC924L0NIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC924L0NSZ	Yes	PC924L0NSZ0F	DIP8pin Through-hole	Sn-Cu	See appendix
PC924L0YIP	Yes	PC924L0YIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC924X	No	-	-	-	-
PC928	Yes	PC928J00000F	SOP14pin Half-pitch lead	Sn-Cu	See appendix

Photocoupler 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
PC928PY	Yes	PC928PYJ000F	SOP14pin Half-pitch lead	Sn-Cu	See appendix
PC929	Yes	PC929J00000F	SOP14pin Half-pitch lead	Sn-Cu	See appendix
PC929P	Yes	PC929PJ0000F	SOP14pin Half-pitch lead	Sn-Cu	See appendix
PC929PY	Yes	PC929PYJ000F	DIP8pin SMD	Sn-Cu	See appendix
PC942	Yes	PC942J00000F	DIP8pin Through-hole	Sn-Cu	See appendix
PC942P	Yes	PC942PJ0000F	DIP8pin SMD	Sn-Cu	See appendix
PC956L0NSZ	Yes	PC956L0NSZ0F	DIP8pin Through-hole	Sn-Cu	See appendix
PC956L0YIP	Yes	PC956L0YIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC957L0NIP	Yes	PC957L0NIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC957L0NSZ	Yes	PC957L0NSZ0F	DIP8pin Through-hole	Sn-Cu	See appendix
PC957L0YIP	Yes	PC957L0YIP0F	DIP8pin SMD	Sn-Cu	See appendix
PC957L0YSZ	Yes	PC957L0YSZ0F	DIP8pin Through-hole	Sn-Cu	See appendix

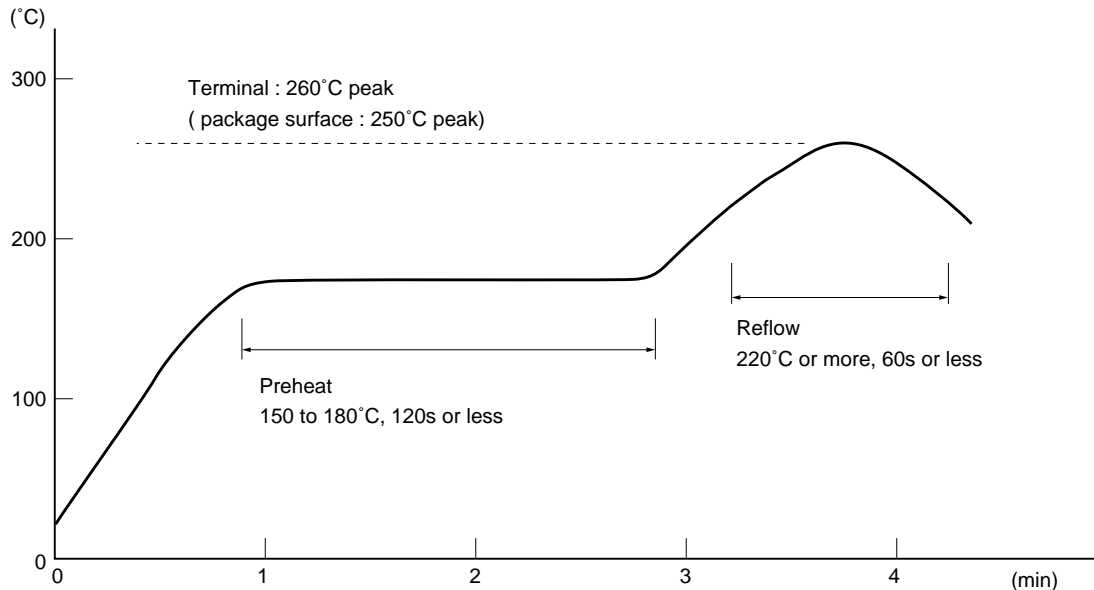
(*): The solder material of the China production up to date code "T4" (April, 2005) is SnBi.

■ Photocoupler : Lead-free part soldering conditions DIP4pin(SMD) / DIP6pin(SMD) / DIP8pin(SMD) / DIP16pin(SMD)

● 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

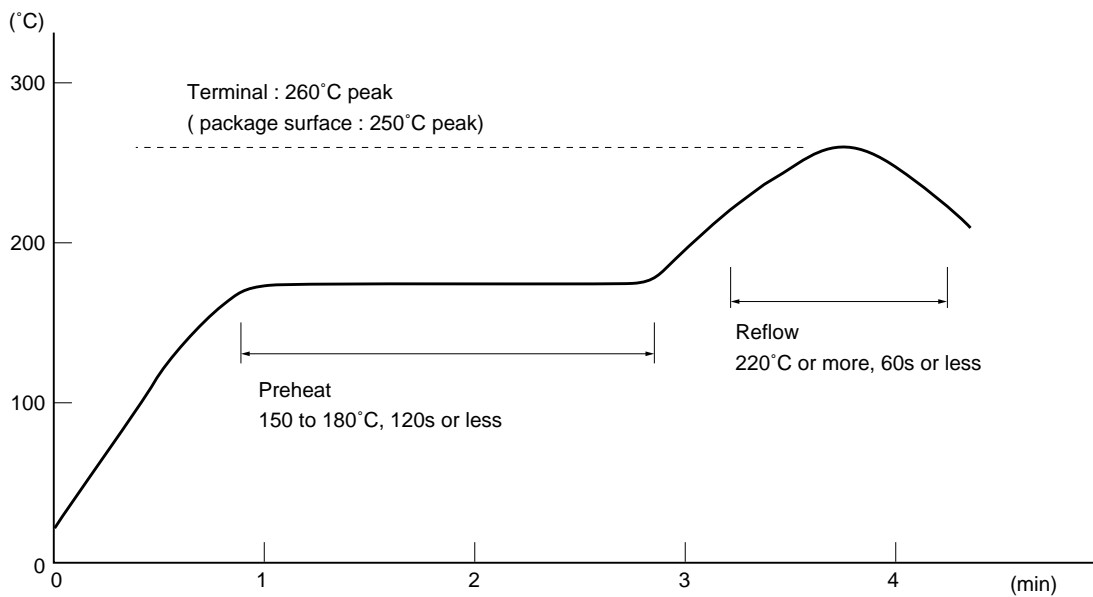
Please test the soldering method in actual condition and make sure the soldering works fine, since the impact on the junction between the device and PCB varies depending on the tooling and soldering conditions.

■ Photocoupler : Lead-free part soldering conditions SOP4pin / SOP4pin half-pitch lead / SOP8pin / SOP14pin half-pitch lead / SOP16pin half-pitch lead

● 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.

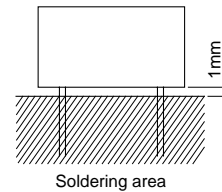
■ Photocoupler : Lead-free part soldering conditions SIP4pin

● Soldering temperature

(from Absolute Maximum Ratings)

$$T_{\text{sol}} : 260^{\circ}\text{C}$$

(For MAX. 10s at the position of 1mm from the edge of resin package.)



● Soldering Method

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.

Please don't bend lead pins from the root of package when soldering.

And please take care not to let any external force exert on lead pins.

Please don't do soldering with preheating, and please don't do soldering by reflow.

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.