

Photodetector 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
BS120	Yes	BS120E0F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
BS520	Yes	BS520E0F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
-	Yes	PT100MC0MP	Leadless	Au plate	See each Specification sheet
-	Yes	PT100MC0MP1	Leadless	Au plate	See each Specification sheet
-	Yes	PT100MF0MP	Leadless	Au plate	See each Specification sheet
-	Yes	PT100MF0MP1	Leadless	Au plate	See each Specification sheet
-	Yes	PT100MF1MP1	Leadless	Au plate	See each Specification sheet
PT4800BC	Yes	PT4800BCE00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT4800B	Yes	PT4800BE000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT4800	Yes	PT4800E0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT4800F	Yes	PT4800FE000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT480	Yes	PT480E00000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT480F	Yes	PT480FE0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT4810	Yes	PT4810E0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT481	Yes	PT481E00000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT481F	Yes	PT481FE0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT483F1	Yes	PT483F1E000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT4850F	Yes	PT4850FE000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT491F	Yes	PT491FE0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PT493F	Yes	PT493FE0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
-	Yes	PT501	Metal can package	Sn	See each Specification sheet
-	Yes	PT501A	Metal can package	Sn	See each Specification sheet
-	Yes	PT510	Metal can package	Sn	See each Specification sheet
-	Yes	PT550	Metal can package	Sn	See each Specification sheet
-	Yes	PT550F	Metal can package	Sn	See each Specification sheet
-	Yes	PD100MC0MP	Leadless	Au plate	See each Specification sheet
-	Yes	PD100MC0MP1	Leadless	Au plate	See each Specification sheet
-	Yes	PD100MF0MP	Leadless	Au plate	See each Specification sheet
-	Yes	PD100MF0MP1	Leadless	Au plate	See each Specification sheet
PD101SC0SS	Yes	PD101SC0SS0F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD101SC0SS1	Yes	PD101SC0SS1F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD101SC0SS3	Yes	PD101SC0SS3F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD3122F	Yes	PD3122FE000F	Double-ended lead SMD	Sn-Cu	See each Specification sheet
PD410PI	Yes	PD410PI2E00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD411PI	Yes	PD411PI2E00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD412PI	Yes	PD412PI2E00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD412TN	Yes	PD412TN2E00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD413PI	Yes	PD413PI2E00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD481PI	Yes	PD481PIE000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
PD49PI	Yes	PD49PIE0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
-	Yes	GA100T8R7MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA100TX02MZA	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA100TX03MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA100TXR1MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA103TXR1MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA104T1M1MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA104T1M4MZ	Leadless chip package	Au plate	See each Specification sheet
GA201TXR1ZZ	Yes	GA201TXR1ZY	Flat-lead package	Sn-Bi	See each Specification sheet
GA201TXR2ZZ	Yes	GA201TXR2ZY	Flat-lead package	Sn-Bi	See each Specification sheet
GA202TXV1SZ	Yes	GA202TXV1SY	Flat-lead package	Sn-Bi	See each Specification sheet
GA202TXV1ZZ	Yes	GA202TXV1ZY	Flat-lead package	Sn-Bi	See each Specification sheet
GA202TXV2SZ	Yes	GA202TXV2SY	Flat-lead package	Sn-Bi	See each Specification sheet
-	Yes	GA202TXV7ZY	Flat-lead package	Sn-Bi	See each Specification sheet
-	Yes	GA210TXV5SY	Flat-lead package	Sn-Bi	See each Specification sheet
-	Yes	GA210TXV9SY	Flat-lead package	Sn-Bi	See each Specification sheet
-	Yes	GA301TXW1MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA301TXW3MZ	Leadless chip package	Au plate	See each Specification sheet
-	Yes	GA301TXW4MZ	Leadless chip package	Au plate	See each Specification sheet
IS1623	Yes	IS1623Q	Flat-lead package	Sn-Bi	See each Specification sheet
-	Yes	IS1682Q	Flat-lead package	Sn-Bi	See each Specification sheet

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Leaded part No.	Lead-free availability	Lead-free part No.	Outline	Solder Material	Soldering Condition
IS1682E	No	-	-	-	-
IS1684	Yes	IS1684Q	Flat-lead package	Sn-Bi	See each Specification sheet
IS456	Yes	IS456E	Flat-lead package	Sn-Cu	See each Specification sheet
IS471F	Yes	IS471FE	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
IS471FS	Yes	IS471FSE	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
IS485	Yes	IS485E	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
IS486	Yes	IS486E	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
IS487	Yes	IS487E	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
IS489	Yes	IS489E	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
GL4910	No	-	-	-	-
-	Yes	GL100MD0MP1	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MD1MP1	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN0MP	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN0MP1	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN0MP1M	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN1MP	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN1MP1	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN1MP1N	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN1MPN	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN3MP	Leadless	Au plate	See each Specification sheet
-	Yes	GL100MN3MP1	Leadless	Au plate	See each Specification sheet
GL4100	Yes	GL4100E0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
GL450	Yes	GL450E00000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
GL453	Yes	GL453E00000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
GL4800BC	Yes	GL4800BCE00F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
GL4800	Yes	GL4800E0000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
GL480	Yes	GL480E00000F	Single-ended lead	Sn-Ag-Cu	See each Specification sheet
-	Yes	GL513F	Metal can package	Sn	See each Specification sheet
-	Yes	GL514	Metal can package	Sn	See each Specification sheet
-	Yes	GL514A	Metal can package	Sn	See each Specification sheet
-	Yes	GL516	Metal can package	Sn	See each Specification sheet
-	Yes	GL551	Metal can package	Sn	See each Specification sheet