

Product Change Notification

Type of Notification: Product Discontinuance

| ISSUE DATE | LAST BUY DATE | NOTIFICATION NO. | LAST SHIP DATE |
|---------------|------------------|------------------|----------------|
| 30 April 2005 | 31 December 2004 | 20050430-01 | 31 March 2005 |

This is to remind you that the following product(s) have been discontinued.

Product ID (Description): This notice encompasses Compound Semiconductor and Optoelectronic devices.

Description of Change: As we previously announced in October 2004, our goal was to transition to Lead Free and RoHs compliant production ONLY by Q2 2005. *Last ship date of March 31 2005 is valid only for orders placed by the Last Buy Date, December 31 2005 which was also announced in October 2004.

Effect of Change: Most of the Light Emitting Diode (LEDs) are being discontinued to focus our sales efforts on chip LEDs. The optoelectronic devices are transitioning to RoHs and Lead-free compliant devices.

Suggested Alternate Devices and/or Manufacturers: Because we are no longer supporting non-Chip LED device, many of these don't have a recommended replacement. The Lead-free replacement is listed for conventional devices in most cases.

Product Change Notification (cont'd)

| CATEGORY | OBSOLETE SHARP PART NO. | SUGGESTED ALTERNATE PART NO. | ALTERNATE MANUFACTURER |
|----------|-------------------------|--|------------------------|
| EMITTER | GA102T1M1MZ | No Replacement | |
| EMITTER | GA201TXR1ZZ | No Replacement | |
| LASER | GH06507B2B | GH06507B2A | |
| LED | GL0ZJ042B0S | 10mm AllnGaP LED, Orange. No Replacement | |
| LED | GL0ZV042B0S | 10mm AllnGaP LED, Amber. No Replacement | |
| EMITTER | GL360 | GL380 | Sharp |
| LED | GL3ED8 | LED - Dichromatic. No Replacement | |
| LED | GL3EG44 | 3mm LED (T1), Green. No Replacement | |

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| LED | GL3HD44 | 3mm LED (T1), Red. No Replacement | |
| LED | GL3HD8 | 3mm LED (T1), Red. No Replacement | |
| LED | GL3HS8 | 3mm LED (T1), Orange. No Replacement | |
| LED | GL3HY43 | 3mm LED (T1), Yellow. No Replacement | |
| LED | GL3HY8 | 3mm LED (T1), Yellow. No Replacement | |
| LED | GL3KG8 | 3mm LED (T1), Green. No Replacement | |
| LED | GL3LR8 | 3mm LED (T1), Red. No Replacement | |
| LED | GL3PR8 | 3mm LED (T1), Red. No Replacement | |
| LED | GL3TR8 | 3mm LED (T1), Red. No Replacement | |
| EMITTER | GL450 | GL453E00000F | Sharp |
| EMITTER | GL450V | GL453E00000F | Sharp |
| EMITTER | GL451 | GL453E00000F | Sharp |
| EMITTER | GL451L1 | GL453E00000F | Sharp |
| EMITTER | GL451V | GL453E00000F | Sharp |
| EMITTER | GL496 | Side view high speed IRED, $\pm 22^\circ$, 880 nm, Bulk...No Replacement | |
| EMITTER | GL496L | Side view high speed IRED, $\pm 22^\circ$, 880 nm, Bulk...No Replacement | |
| LED | GL5CL44 | LED - Dichromatic. No Replacement | |
| LED | GL5FG43 | 5mm LED (T1-3/4). No Replacement | |
| LED | GL5HD8 | 5mm LED (T1-3/4), Red. No Replacement | |
| LED | GL5HP5 | LED - Dichromatic. No Replacement | |
| LED | GL5KG8 | 5mm LED (T1-3/4), Green. No Replacement | |
| LED | GL5TR40 | LED, Red. No Replacement | |
| LED | GL5TR43 | 5mm LED (T1-3/4). No Replacement | |
| LED | GL5TR44 | LED, Red. No Replacement | |
| LED | GL5TR8 | 5mm LED (T1-3/4), Red. No Replacement | |
| LED | GL5UR2K | 5mm Red LED, 2000mcd. No Replacement | |
| LED | GL5UR2K1 | 5mm Red LED, 2000mcd. No Replacement | |
| LED | GL5UR2K6 | LED, Hi Bright, RED. No Replacement | |
| LED | GL5UR3K | 5mm Red LED, 3000mcd. No Replacement | |
| LED | GL5UR3K1 | 5mm Red LED, 3000mcd. No Replacement | |
| LED | GL5UR44 | 5mm Red LED. No Replacement | |
| LED | GL5UR64 | LED, Hi Bright, RED. No Replacement | |
| LED | GL5UR8 | 5mm Red LED. No Replacement | |
| LED | GL5ZE302B0S | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZE43 | 5mm AllnGaP LED (T1-3/4). No Replacement | |

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| | | Replacement | |
| LED | GL5ZE44 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZG302B0S | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZG43 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZG44 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZJ302B0S | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZJ302B0SM | M-Rank (If available). No Replacement | |
| LED | GL5ZJ302B0SN | N-Rank (If available). No Replacement | |
| LED | GL5ZJ43 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZJ44 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZJ44P | P-Rank (If available). No Replacement | |
| LED | GL5ZJ44Q | Q-Rank (If available). No Replacement | |
| LED | GL5ZR302B0S | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZR302B0SK | K-Rank (If available). No Replacement | |
| LED | GL5ZR302B0SL | L-Rank (If available). No Replacement | |
| LED | GL5ZR43 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZR44 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZR44N | N-Rank (If available). No Replacement | |
| LED | GL5ZR44O | O-Rank (If available). No Replacement | |
| LED | GL5ZS302B0S | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZS43 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZS44 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZV302B0S | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZV302B0SM | M-Rank (If available). No Replacement | |
| LED | GL5ZV302B0SN | N-Rank (If available). No Replacement | |
| LED | GL5ZV43 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZV44 | 5mm AllnGaP LED (T1-3/4). No Replacement | |
| LED | GL5ZV44O | O-Rank (If available). No Replacement | |
| LED | GL5ZV44P | P-Rank (If available). No Replacement | |
| LED | GL6CL11 | LED - Dichromatic. No Replacement | |
| LED | GL6CU11 | LED - Dichromatic. No Replacement | |

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| | | Replacement | |
| LED | GL6CU7 | LED - Dichromatic. No Replacement | |
| LED | GL6ZE27 | Lamp Oval AllnGaP LED, Green. No Replacement | |
| LED | GL6ZG27 | Lamp Oval AllnGaP LED, Green. No Replacement | |
| LED | GL6ZJ27 | Lamp Oval AllnGaP LED, Orange. No Replacement | |
| LED | GL6ZJ27K | K-Rank (If available). No Replacement | |
| LED | GL6ZJ27L | L-Rank (If available). No Replacement | |
| LED | GL6ZR27 | Lamp Oval AllnGaP LED, Red. No Replacement | |
| LED | GL6ZR27J | J-Rank (If available). No Replacement | |
| LED | GL6ZR27K | K-Rank (If available). No Replacement | |
| LED | GL6ZS27 | Lamp Oval AllnGaP LED, Orange. No Replacement | |
| LED | GL6ZS27L | L-Rank (If available). No Replacement | |
| LED | GL6ZS27M | M-Rank (If available). No Replacement | |
| LED | GL6ZV27 | Lamp Oval AllnGaP LED, Amber. No Replacement | |
| LED | GL6ZV27K | K-Rank (If available). No Replacement | |
| LED | GL6ZV27L | L-Rank (If available). No Replacement | |
| LED | GL8D06 | 1-digit, 7-segment LED. No Replacement | |
| LED | GL8ED48 | Dichromatic LED. No Replacement | |
| LED | GL8ED5 | Dichromatic LED. No Replacement | |
| LED | GL8EG21 | LED - Rectangle, Green. No Replacement | |
| LED | GL8EG22 | LED - Rectangle, Green. No Replacement | |
| LED | GL8EG4 | LED - Arch, Green. No Replacement | |
| LED | GL8HD22 | LED - Square, Red. No Replacement | |
| LED | GL8HP5 | Dichromatic led . No Replacement | |
| LED | GL8HY22 | LED - Square, Yellow. No Replacement | |
| LED | GL8PR22 | Lamp LED - Square, Red. No Replacement | |
| LED | GL9D040 | 1-digit, 7-segment LED. No Replacement | |
| LED | GL9E03M | 1-digit, 7-segment LED. No Replacement | |
| LED | GL9ED2 | Dichromatic LED. No Replacement | |
| LED | GL9ED4 | Dichromatic LED. No Replacement | |
| LED | GL9ET100 | Dichromatic LED . No Replacement | |

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| LED | GL9HP2 | Dichromatic LED. No Replacement | |
| LED | GL9T030 | 1-digit, 7-segment LED. No Replacement | |
| LED | GM1BC35200AC | GM1BC35310AC | Sharp |
| POF | GP0P002 | Protection Cap (GP1F32/38T/R). No replacement needed. Please use shuttered device. | |
| PI | GP1A037RCK | GP1A038RCK0F or other | Sharp |
| PI | GP1A038RBK | GP1A038RCK0F or other | Sharp |
| PI | GP1A05A2 | GP1A05AJ000F | Sharp |
| PI | GP1A05A5 | GP1A05AJ000F | Sharp |
| PI | GP1A05E | GP1A05AJ000F | Sharp |
| PI | GP1A05E2 | GP1A05AJ000F | Sharp |
| PI | GP1A10 | GP1A05AJ000F | Sharp |
| PI | GP1A15 | GP1A51HRJ00F | Sharp |
| PI | GP1A20 | GP1A51HRJ00F | Sharp |
| PI | GP1A21 | GP1A73AXJ00F | Sharp |
| PI | GP1A21X | GP1A73AXJ00F | Sharp |
| PI | GP1A22HR | GP1A05AJ000F | Sharp |
| PI | GP1A22LC | GP1A05AJ000F | Sharp |
| PI | GP1A25LC | GP1A05AJ000F | Sharp |
| PI | GP1A27LC | GP1A05AJ000F | Sharp |
| PI | GP1A30R | Low Resolution Encoder. No replacement. GP1A038 SERIES?? | Sharp |
| PI | GP1A34A1 | GP1A74BJ000F | Sharp |
| PI | GP1A34LC | GP1A74BJ000F | Sharp |
| PI | GP1A35RV | GP1A038RCK0F or other | Sharp |
| PI | GP1A38L5 | 5-channel Photointerrupter w/connector. No replacement | |
| PI | GP1A38L7 | 7-channel Photointerrupter w/connector. No Replacement. | |
| PI | GP1A44E1 | GP1A44E1J00F | Sharp |
| PI | GP1A44E6 | GP1A44E1J00F | Sharp |
| PI | GP1A45E1 | GP1A44E1J00F | Sharp |
| PI | GP1A50HR | GP1A50HRJ00F | Sharp |
| PI | GP1A51HR | GP1A51HRJ00F | Sharp |
| PI | GP1A521 | GP1A52HRJ00F | Sharp |
| PI | GP1A52HR | GP1A52HRJ00F | Sharp |
| PI | GP1A52LR | GP1A52LRJ00F | Sharp |
| PI | GP1A53HR | GP1A53HRJ00F | Sharp |
| PI | GP1A57HR | GP1A57HRJ00F | Sharp |
| PI | GP1A58HR | GP1A58HRJ00F | Sharp |
| PI | GP1A68L | GP1A91LRJ00F | Sharp |
| PI | GP1A71A1 | No Replacement. | |
| PI | GP1A71R | Low Resolution Encoder. No replacement. GP1A038 SERIES?? | Sharp |
| PI | GP1A73A1 | GP1A73AXJ00F | Sharp |
| PI | GP1A74A1 | GP1A74BJ000F | Sharp |
| PI | GP1AQ36L | High Temp Photointerrupter w/Connector. No Replacement | |
| PI | GP1AQ72A | High Temp OPIC Photointerrupter. No Replacement. | |
| POF | GP1C331 | POF Cable 1.0 m No Replacement. | |
| POF | GP1C333 | POF Cable 3.0 m No Replacement. | |
| POF | GP1C334 | POF Cable 4.0 m No Replacement. | |

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| POF | GP1C335 | POF Cable 5.0 m No Replacement. | |
| POF | GP1F361T | GP1FD310TP0F | Sharp |
| POF | GP1F562T | GP1FD310TP0F | Sharp |
| POF | GP1FA352RZ | GP1FA313RZ0F | Sharp |
| POF | GP1FA352TZ | GP1FA313TZ0F | Sharp |
| POF | GP1FA511RZ | GP1FA513RZ0F | Sharp |
| POF | GP1FA511TZ | GP1FA514TZ0F | Sharp |
| POF | GP1FA512RZ | GP1FA513RZ0F | Sharp |
| POF | GP1FA512TZ | GP1FA514TZ0F | Sharp |
| POF | GP1FA551TZ | GP1FA514TZ0F | Sharp |
| POF | GP1FD310TP | GP1FD310TP0F | Sharp |
| POF | GP1FJ300RP | POF OMJ 2.5 mm diameter. No replacement | |
| POF | GP1FM520RZ | GP1FM513RZ0F | Sharp |
| POF | GP1FM520TZ | GP1FM513TZ0F | Sharp |
| POF | GP1FM521RZ | GP1FM513RZ0F | Sharp |
| POF | GP1FM521TZ | GP1FM513TZ0F | Sharp |
| POF | GP1FP513RK | GP1FP513RK0F | Sharp |
| POF | GP1FP513TK | GP1FP513TK0F | Sharp |
| POF | GP1FP513TKA | GP1FP513TK0F | Sharp |
| PI | GP1L50 | GP1L52VJ000F | Sharp |
| PI | GP1L51 | GP1L52VJ000F | Sharp |
| PI | GP1L52 | GP1L52VJ000F | Sharp |
| PI | GP1S05V | GP1S58VJ000F | Sharp |
| PI | GP1S06 | GP1S51VJ000F | Sharp |
| PI | GP1S09 | GP1S73PJ000F | Sharp |
| PI | GP1S22 | GP1S097HCZ0F | Sharp |
| PI | GP1S24 | GP1S094HCZ0F | Sharp |
| PI | GP1S27 | GP1S096HCZ0F | Sharp |
| PI | GP1S28 | GP1S093HCZ0F | Sharp |
| PI | GP1S30 | GP1S39J0000F | Sharp |
| PI | GP1S33 | GP1S092HCPIF | Sharp |
| PI | GP1S37 | GP1S093HCZ0F/GP1S097HCZ0F | Sharp |
| PI | GP1S44S6 | GP1S44S1J00F | Sharp |
| PI | GP1S45S | GP1S44S1J00F | Sharp |
| PI | GP1S46 | NO Recommended Alternative | |
| PI | GP1S50 | GP1S51VJ000F | Sharp |
| PI | GP1S52 | GP1S52VJ000F | Sharp |
| PI | GP1S525V | GP1S525VJ00F | Sharp |
| PI | GP1S52V | GP1S52VJ000F | Sharp |
| PI | GP1S53 | GP1S53VJ000F | Sharp |
| PI | GP1S562 | No replacement. Case type, snap-in | |
| PI | GP1S563 | No replacement. Long case type, snap-in | |
| PI | GP1S56T | GP1S56TJ000F | Sharp |
| PI | GP1S58 | GP1S58VJ000F | Sharp |
| PI | GP1S72P | GP1S74PJ000F | Sharp |
| PI | GP1S93 | GP1S093HCZ0F | Sharp |
| PI | GP1S94 | GP1S094HCZ0F | Sharp |
| PI | GP1S96 | GP1S096HCZ0F | Sharp |
| PI | GP1S97 | GP1S097HCZ0F | Sharp |
| PI | GP1SQ51 | Photointerrupter with precoat for hi temp. No Replacement | |
| PI | GP1SQ51V | Photointerrupter with precoat for hi temp. No Replacement | |
| PI | GP1SQ52 | Photointerrupter with precoat for hi temp. No Replacement | |

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| PI | GP1SQ59C | Photointerrupter with precoat for hi temp. No Replacement | |
| RMTC | GP1U101X | GP1US30XP | Sharp |
| PI | GP2A16 | GP2A25J0000F | Sharp |
| PI | GP2A26 | GP2A25J0000F | Sharp |
| PI | GP2D03 | Paper size sensor. No Replacement. | |
| PI | GP2D04 | Paper size sensor. No Replacement. | |
| PI | GP2D05 | GP2D15J0000F or GP2Y0D21YK0F range 10-80cm | Sharp |
| PI | GP2DM03 | Microcomputer for GP2D03/04/06/07. No Replacement. | |
| PI | GP2L01 | GP2S28J0000F | Sharp |
| PI | GP2L09 | GP2L24**J00F Series | Sharp |
| PI | GP2L09A | GP2L24**J00F Series | Sharp |
| PI | GP2L20L | Case Type Photointerrupter Prism System. No replacement | |
| PI | GP2L20R | Case Type Photointerrupter Prism System. No replacement | |
| PI | GP2L22 | GP2L24**J00F Series, Ic = 0.5-15.0 mA FD = 0.6mm | Sharp |
| PI | GP2L22A | GP2L24**J00F Series, Ic = 4.0-15.0 mA FD = 0.6mm | Sharp |
| PI | GP2L22AB | GP2L24**J00F Series, Ic = 1.45-15.0 mA FD = 0.6mm | Sharp |
| PI | GP2L22B | GP2L24**J00F Series, Ic = 1.45-5.4 mA FD = 0.6mm | Sharp |
| PI | GP2L22BC | GP2L24**J00F Series, Ic = 0.5-5.0 mA FD = 0.6mm | Sharp |
| PI | GP2L23L | Case Type Photointerrupter Prism System. No replacement | |
| PI | GP2L26 | GP2L24**J00F Series Ic = 1.45 - 5.4 uA FD =0.6mm | Sharp |
| PI | GP2L26B | GP2L24**J00F Series Ic = 1.45 - 5.4 uA FD =0.6mm | Sharp |
| PI | GP2L26C | GP2L24**J00F Series Ic = 1.45 - 5.4 uA FD =0.6mm | Sharp |
| PI | GP2S09 | GP2L24**J00F Series | Sharp |
| PI | GP2S09B | GP2L24**J00F Series | Sharp |
| PI | GP2S22 | GP2L24**J00F Series Ic = 20-125 uA | Sharp |
| PI | GP2S22A | GP2L24**J00F Series Ic = 58-125 uA | Sharp |
| PI | GP2S22AB | GP2L24**J00F Series Ic = 34-125 uA | Sharp |
| PI | GP2S22B | GP2L24**J00F Series Ic = 34-71 uA | Sharp |
| PI | GP2S22BC | GP2L24**J00F Series Ic = 20-71 uA | Sharp |
| PI | GP2S22C | GP2L24**J00F Series Ic = 20-42 uA | Sharp |
| PI | GP2S26 | GP2S24J0000F Series | Sharp |
| PI | GP2S26AB | GP2S24J0000F Series | Sharp |
| PI | GP2S26B | GP2S24J0000F Series | Sharp |
| PI | GP2S26BC | GP2S24J0000F Series | Sharp |
| PI | GP2S26C | GP2S24J0000F Series | Sharp |
| PI | GP2S27 | GP2S27T*J00F Series Ic = 20-120 mA | Sharp |

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| PI | GP2S27B | GP2S27T*J00F Series Ic = 34-71 mA | Sharp |
| PI | GP2S27BC | GP2S27T*J00F Series Ic = 34-120 mA | Sharp |
| PI | GP2S27C | GP2S27T*J00F Series Ic = 58-120 mA | Sharp |
| PI | GP2S28A | GP2S28J0000F | Sharp |
| PI | GP2S29 | Case Type Photointerrupter Prism System, No alternative | |
| PI | GP2S30 | Photointerrupter w/3-pin connector F. Length=5mm. No Replacement | |
| PI | GP2S40J | GP2S40JJ000F | |
| PI | GP2TC1 | Toner Density Sensor. No Replacement. | |
| PI | GP2TC2 | Toner Density Sensor. No Replacement. | |
| PI | GP2TD03 | Tilt Sensor Detects Angles + 0.5 Deg. No Replacement. | |
| IRDA | GP2W2003YK | IrDA Control Transceiver. No Replacement | |
| IRDA | GP2W2004YK | IrDA Control Transceiver. No Replacement | |
| DETECTOR | IS481 | IS485E | Sharp |
| DETECTOR | IS482 | IS485E | Sharp |
| DETECTOR | IS487 | IS485E | Sharp |
| LED | LT1D51A | Surface Mount LED, Red. No Replacement | |
| LED | LT1D53A | Surface Mount LED, Red. No Replacement | |
| LED | LT1D82A | Surface Mount LED, Red. No Replacement | |
| LED | LT1D90A | Leadless Chip LED, Red. No Replacement | |
| LED | LT1D97A | GM1HD55200B. No Replacement | |
| LED | LT1E45A | GM4EG81200A. No Replacement | |
| LED | LT1E51A | Surface Mount LED, Yellow-Green. No Replacement | |
| LED | LT1E53A | Surface Mount LED, Yellow-Green. No Replacement | |
| LED | LT1E82A | Surface Mount LED, Yellow-Green. No Replacement | |
| LED | LT1E90A | Leadless Chip LED, Green. No Replacement | |
| LED | LT1ED53A | Dichromatic Surface Mount LED. No Replacement | |
| LED | LT1ED90A | Dichromatic Leadless Chip LED (3030). No Replacement | |
| LED | LT1EH53A | Dichromatic Surface Mount LED. No Replacement | |
| LED | LT1H51A | Surface Mount LED, Yellow. No Replacement | |
| LED | LT1H53A | Surface Mount LED, Yellow. No Replacement | |
| LED | LT1H82A | Surface Mount LED, Yellow. No Replacement | |
| LED | LT1H90A | Leadless Chip LED, Yellow. No Replacement | |
| LED | LT1H97A | GM1HY55200A. No Replacement | |
| LED | LT1HP53A | Dichromatic Surface Mount LED. No Replacement | |

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| LED | LT1K51A | Surface Mount LED, Green. No Replacement | |
| LED | LT1K53A | Surface Mount LED, Green. No Replacement | |
| LED | LT1K67A | Leadless Chip LED, Green. No Replacement | |
| LED | LT1K82A | Surface Mount LED, Green. No Replacement | |
| LED | LT1KS82A | Dichromatic Surface Mount LED. No Replacement | |
| LED | LT1L51A | Surface Mount LED, Red. No Replacement | |
| LED | LT1L52A | Surface Mount LED, Red. No Replacement | |
| LED | LT1L82A | Surface Mount LED, Red. No Replacement | |
| LED | LT1P51A | Surface Mount LED, Red. No Replacement | |
| LED | LT1P53A | Surface Mount LED, Red. No Replacement | |
| LED | LT1P82A | Surface Mount LED, Red. No Replacement | |
| LED | LT1S51A | Surface Mount LED, Orange. No Replacement | |
| LED | LT1S53A | Surface Mount LED, Orange. No Replacement | |
| LED | LT1S82A | Surface Mount LED, Orange. No Replacement | |
| LED | LT1S83A | Surface Mount LED, Orange. No Replacement | |
| LED | LT1S90A | Leadless Chip LED, Orange. No Replacement | |
| LED | LT1T51A | Surface Mount LED, Red. No Replacement | |
| LED | LT1T52A | Surface Mount LED, Red. No Replacement | |
| LED | LT1T82A | Surface Mount LED, Red. No Replacement | |
| LED | LT1U82A | Surface Mount LED, Red. No Replacement | |
| LED | LT4070EA | Back Light. No Replacement | |
| LED | LT4071EA | Back Light. No Replacement | |
| LED | LT4082E | Back Light. No Replacement | |
| LED | LT4083E | Back Light. No Replacement | |
| LED | LT5005T | Dot Matrix. No Replacement | |
| PC | PC352M | PC367MJ0000F | Sharp |
| PC | PC352M1 | PC367MJ0000F | Sharp |
| PC | PC352M11 | PC367MJ0000F Series | Sharp |
| PC | PC352M1T | PC367M1J000F | Sharp |
| PC | PC352M2 | PC367M2J000F | Sharp |
| PC | PC352M2T | PC367M2J000F | Sharp |
| PC | PC352M3 | PC367M3J000F | Sharp |
| PC | PC352M3T | PC367M3J000F | Sharp |
| PC | PC352MT | PC367MJ0000F | Sharp |
| PC | PC352N | PC367NJ0000F | Sharp |
| PC | PC352N1 | PC367N1J000F | Sharp |
| PC | PC352N1T | PC367N1J000F | Sharp |
| PC | PC352N2 | PC367N2J000F | Sharp |
| PC | PC352N2T | PC367N2J000F | Sharp |
| PC | PC352N3 | PC367NJ0000F | Sharp |

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| PC | PC352N3T | PC367NJ0000F | Sharp |
| PC | PC352NT | PC367NJ0000F | Sharp |
| PC | PC354AT | PC354N1TJ00F | Sharp |
| PC | PC356M11 | PC357M15J00F | Sharp |
| PC | PC358 | PC357T13J00F | Sharp |
| PC | PC358B | PC357T13J00F | Sharp |
| PC | PC358BT | PC357T13J00F | Sharp |
| PC | PC359M | PC364MJ0000F | Sharp |
| PC | PC359M1 | PC364M1J000F | Sharp |
| PC | PC359M11 | PC364M1J000F | Sharp |
| PC | PC359M1T | PC364M1J000F | Sharp |
| PC | PC359MT | PC364MJ0000F | Sharp |
| PC | PC359N | PC364NJ0000F | Sharp |
| PC | PC359N1 | PC364N1J000F | Sharp |
| PC | PC359N1T | PC364N1J000F | Sharp |
| PC | PC359NT | PC364NJ0000F | Sharp |
| PC | PC365M | PC365NJ0000F | Sharp |
| PC | PC365MT | PC365NTJ000F | Sharp |
| PC | PC365NT | Low If, High CMR PC355NTJ000F 750pcsT&R...No Replacement | Sharp |
| PC | PC367M1 | PC367N1J000F | Sharp |
| PC | PC367M1T | PC367N1TJ00F | Sharp |
| PC | PC367M2 | PC367N2J000F | Sharp |
| PC | PC367M2T | PC367N2TJ00F | Sharp |
| PC | PC3H2 | PC3H710NiP0F | Sharp |
| PC | PC3H2A | PC3H711NiP0F | Sharp |
| PC | PC3H2AB | PC3H715NiP0F | Sharp |
| PC | PC3H2AC | PC3H71xNiP0F series | Sharp |
| PC | PC3H2AD | PC3H71xNiP0F series | Sharp |
| PC | PC3H2B | PC3H71xNiP0F series | Sharp |
| PC | PC3H2BC | PC3H71xNiP0F series | Sharp |
| PC | PC3H2BD | PC3H71xNiP0F series | Sharp |
| PC | PC3H2C | PC3H71xNiP0F series | Sharp |
| PC | PC3H2CD | PC3H71xNiP0F series | Sharp |
| PC | PC3H2D | PC3H71xNiP0F series | Sharp |
| PC | PC3H3 | PC3H410NiP0F | Sharp |
| PC | PC3H3A | PC3H411NiP0F | Sharp |
| PC | PC3H3B | PC3H41xNiP0F series | Sharp |
| PC | PC3H3BC | PC3H41xNiP0F series | Sharp |
| PC | PC3H3C | PC3H41xNiP0F series | Sharp |
| PC | PC3H3E | PC3H41xNiP0F series | Sharp |
| PC | PC3Q62 | PC3Q710NiP0F | Sharp |
| PC | PC3Q62K | PC3Q711NiPKF | Sharp |
| PC | PC3Q63 | PC3Q410NiP0F | Sharp |
| PC | PC3Q63K | PC3Q410NiP0F | Sharp |
| PC | PC3Q66Q | PC3Q67QJ000F | Sharp |
| PC | PC3SD21NXPCJ | PC3SD21NXPCFF | Sharp |
| PC | PC3SD21NXZCJ | PC3SD21NXZCF | Sharp |
| PC | PC3SD21YXPCJ | PC3SD21YXPCF | Sharp |
| PC | PC3SS21NIPJ | S2S4LY0F | Sharp |
| PC | PC3SS21NIZJ | S2S4LY0F | Sharp |
| PC | PC3ST11NiZB | PC3ST11NiPBF - Contact Factory | Sharp |
| PC | PC400Z | PC400J00000F | Sharp |
| PC | PC401Z | PC401J00000F | Sharp |
| PC | PC451Z | PC451J00000F | Sharp |
| PC | PC452Z | PC452J00000F | Sharp |
| PC | PC4D100NiP | PC4D10SNiP0F | Sharp |
| PC | PC4D100YIP | PC4D10SYiP0F | Sharp |
| PC | PC4D570NiP | No Replacement | |

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| PC | PC4D570YIP | No Replacement | |
| PC | PC4N250NSZX | PC817XJ0000F series | Sharp |
| PC | PC4N250YSZX | PC123J00000F series | Sharp |
| PC | PC4N260NSZX | PC817XJ0000F series | Sharp |
| PC | PC4N260YSZX | PC123J00000F series | Sharp |
| PC | PC4N270NSZX | PC817XJ0000F series | Sharp |
| PC | PC4N270YSZX | PC123J00000F series | Sharp |
| PC | PC4N280NSZX | PC817XJ0000F series | Sharp |
| PC | PC4N280YSZX | PC123J00000F series | Sharp |
| PC | PC4N290NSZX | PC815XJ0000F series | Sharp |
| PC | PC4N290YSZX | PC815XJ0000F | Sharp |
| PC | PC4N300NSZX | PC815XJ0000F series | Sharp |
| PC | PC4N300YSZX | PC815XYJ000F series | Sharp |
| PC | PC4N320NSZX | PC815XJ0000F series | Sharp |
| PC | PC4N320YSZX | PC815XYJ000F series | Sharp |
| PC | PC4N330NSZX | PC815XJ0000F series | Sharp |
| PC | PC4N330YSZX | PC815XYJ000F series | Sharp |
| PC | PC4N350NSZX | PC817X7J000F | Sharp |
| PC | PC4N350YSZX | PC123J00000F series | Sharp |
| PC | PC4N360NSZX | PC817X7J000F | Sharp |
| PC | PC4N360YSZX | PC123J00000F series | Sharp |
| PC | PC4N370NSZX | PC817X7J000F | Sharp |
| PC | PC4N370YSZX | PC123J00000F series | Sharp |
| PC | PC4SE11NSZ | PC4SF11YVZAF | Sharp |
| PC | PC512BC | PC512J00000F | Sharp |
| PC | PC702V0NSZX | PC713V0NSZXF | Sharp |
| PC | PC702V0YSZX | PC713V0YSZXF | Sharp |
| PC | PC702V3NSZX | PC713V3NSZXF | Sharp |
| PC | PC703V0NIZX | PC713V0NIZXF | Sharp |
| PC | PC703V0NSZX | PC713V0NSZXF | Sharp |
| PC | PC703V0YSZX | PC713V0YSZXF | Sharp |
| PC | PC713V0NSZX | PC817XJ0000F series | Sharp |
| PC | PC716V0NSZX | PC715V0NSZXF | Sharp |
| PC | PC716V0YSZX | PC715V0NSZXF | Sharp |
| PC | PC723V0NSZX | PC851XJ0000F series | Sharp |
| PC | PC723V0YSZX | PC851XJ0000F series | Sharp |
| PC | PC725VY | PC725V0YSZXF | Sharp |
| PC | PC733HI | PC814XPJ000F | Sharp |
| PC | PC733HP | PC814XPJ000F | Sharp |
| PC | PC812 | PC81710NSZ0F | Sharp |
| PC | PC812A | PC81710NSZ0F | Sharp |
| PC | PC812PJ1 | PC81710NIP0F | Sharp |
| PC | PC814Y | PC814XJ0000F | Sharp |
| PC | PC815i | PC815XIJ000F | Sharp |
| PC | PC815iY | PC815XYJ000F Series | Sharp |
| PC | PC815P | PC815XPJ000F | Sharp |
| PC | PC815PY | PC815XPYJ00F | Sharp |
| PC | PC815Y | PC815XYJ000F | Sharp |
| PC | PC81715NIP | PC81712NiP0F | Sharp |
| PC | PC81715NSZ | PC81712NSZ0F | Sharp |
| PC | PC817PJ4 | PC817XP4J00F | Sharp |
| PC | PC823 | PC81410NSZ0F | Sharp |
| PC | PC824 | PC814XJ0000F x 2 pcs | Sharp |
| PC | PC824AJ | PC814X1J000F Series x 2 pcs | Sharp |
| PC | PC825 | PC815XJ0000F x2 pcs | Sharp |
| PC | PC825Y | PC815XYJ000F x2 pcs | Sharp |
| PC | PC827AB | PC817X5J000F x2 pcs | Sharp |
| PC | PC827AD | PC817X0J000F x2 pcs | Sharp |

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| PC | PC827BD | PC817X9J000F x2 pcs | Sharp |
| PC | PC827CD | PC817X7J000F x2 pcs | Sharp |
| PC | PC827Y | 2 x PC123J0000F | Sharp |
| PC | PC827Y0 | 2 x PC123J0000F | Sharp |
| PC | PC827Y5 | 2 x PC123J0000F | Sharp |
| PC | PC827Y6 | 2 x PC123J0000F | Sharp |
| PC | PC827Y7 | 2 x PC123J0000F | Sharp |
| PC | PC827Y8 | 2 x PC123J0000F | Sharp |
| PC | PC827Y9 | 2 x PC123J0000F | Sharp |
| PC | PC829 | PC817XJ0000F x2 pcs | Sharp |
| PC | PC829Y | 2 x PC123J0000F | Sharp |
| PC | PC837 | PC817XJ0000F x3 pcs | Sharp |
| PC | PC837CD | 2 x PC123YJ0000F | Sharp |
| PC | PC837Y | 2 x PC123YJ0000F | Sharp |
| PC | PC837Y0 | 2 x PC123YJ0000F | Sharp |
| PC | PC837Y5 | 2 x PC123YJ0000F | Sharp |
| PC | PC837Y6 | 2 x PC123YJ0000F | Sharp |
| PC | PC837Y7 | 2 x PC123YJ0000F | Sharp |
| PC | PC837Y8 | 3 x PC123YJ0000F | Sharp |
| PC | PC837Y9 | 3 x PC123YJ0000F | Sharp |
| PC | PC844iJ1T | PC844IJ1J00F | Sharp |
| PC | PC845 | PC845XJ0000F | Sharp |
| PC | PC845I | PC845XIJ000F | Sharp |
| PC | PC845Y | No Replacement | |
| PC | PC847XiT | No Replacement | |
| PC | PC849 | 4 x PC817XJ0000F | Sharp |
| PC | PC849Y | 4 x PC123YJ0000F | Sharp |
| PC | PC866 | PC817XJ0000F Series | Sharp |
| PC | PC866Q | PC817XJ0000F Series | Sharp |
| PC | PC875 | PC815XJ0000F | Sharp |
| PC | PC895 | PC845XJ0000F | Sharp |
| PC | PC8D52 | PC852XJ0000F x2 pcs | Sharp |
| PC | PC8D66 | PC817XJ0000F Series x2 pcs | Sharp |
| PC | PC8D66Q | No Replacement | |
| PC | PC8Q51 | PC851XJ0000F x4 pcs | Sharp |
| PC | PC8Q52 | PC852XJ0000F x4 pcs | Sharp |
| PC | PC8Q66 | PC817XJ0000F Series x4 pcs | Sharp |
| PC | PC8Q66Q | No Replacement | |
| PC | PC906 | PC123J00000F Series + Shunt Regualtor | Sharp |
| PC | PC923X | PC923L0NSZ0F | Sharp |
| DETECTOR | PD410Pi | PD410PI2E00F | Sharp |
| DETECTOR | PD411Pi | PD411PI2E00F | Sharp |
| DETECTOR | PD412Pi | PD412PI2E00F | Sharp |
| DETECTOR | PD413Pi | PD413PI2E00F | Sharp |
| REGULATOR | PQ033ES1MWP | PQ033ES1MXPQ | Sharp |
| REGULATOR | PQ050ES1MWP | PQ050ES1MXPQ | Sharp |
| REGULATOR | PQ05RA1 | PQ050RDA1SZH | Sharp |
| REGULATOR | PQ05RF1 | PQ050RDA1SZH | Sharp |
| REGULATOR | PQ05RF11 | PQ050RDA1SZH | Sharp |
| REGULATOR | PQ05RF1V | PQ15RW11J00H | Sharp |
| REGULATOR | PQ05RF2 | PQ050RDA2SZH | Sharp |
| REGULATOR | PQ05RF21 | PQ050RDA2SZH | Sharp |
| REGULATOR | PQ05RF2A | PQ050RDA2MZH | Sharp |
| REGULATOR | PQ05RF2B | PQ050RDA2MZH | Sharp |
| REGULATOR | PQ05RF2V | PQ15RW21J00H | Sharp |
| REGULATOR | PQ05RH1 | PQ050RDA2SZH | Sharp |
| REGULATOR | PQ05RH11 | PQ050RDA2SZH | Sharp |
| REGULATOR | PQ05SZ1T | PQ050DNA1ZPH | Sharp |

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| REGULATOR | PQ07RX11 | PQ070VK01FZH | Sharp |
| REGULATOR | PQ07VR5MBZP | PQ07VR5MAZPH | Sharp |
| REGULATOR | PQ07VR5MBZZ | PQ07VR5MAZZH | Sharp |
| REGULATOR | PQ07VR5MCZP | PQ07VR5MAZPH | Sharp |
| REGULATOR | PQ07VR5MCZZ | PQ07VR5MAZZH | Sharp |
| REGULATOR | PQ07VR5MDZP | PQ07VR5MAZPH | Sharp |
| REGULATOR | PQ07VR5MDZZ | PQ07VR5MAZZH | Sharp |
| REGULATOR | PQ090DZ01ZP | PQ090DNA1ZPH | Sharp |
| REGULATOR | PQ090DZ01ZZ | PQ090DNA1ZPH | Sharp |
| REGULATOR | PQ090RD01SZ | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09DZ11 | PQ090DNA1ZZH | Sharp |
| REGULATOR | PQ09DZ1U | PQ090DNA1ZPH | Sharp |
| REGULATOR | PQ09DZ51 | PQ090DNA1ZZH | Sharp |
| REGULATOR | PQ09DZ5U | PQ090DNA1ZPH | Sharp |
| REGULATOR | PQ09RA1 | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09RA11 | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09RD08 | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09RD11 | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09RD1B | PQ090RDA1MZH | Sharp |
| REGULATOR | PQ09RD21 | PQ090RDA2SZH | Sharp |
| REGULATOR | PQ09RF1 | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09RF11 | PQ090RDA1SZH | Sharp |
| REGULATOR | PQ09RF12 | PQ15RW11J00H | Sharp |
| REGULATOR | PQ09RF13 | PQ15RW11J00H | Sharp |
| REGULATOR | PQ09RF1V | PQ15RW11J00H | Sharp |
| REGULATOR | PQ09RF2 | PQ090RDA2SZH | Sharp |
| REGULATOR | PQ09RF21 | PQ090RDA2SZH | Sharp |
| REGULATOR | PQ09RF2A | PQ090RDA2SZH | Sharp |
| REGULATOR | PQ09RF2B | PQ090RDA2SZH | Sharp |
| REGULATOR | PQ09RF2V | PQ15RW21J00H | Sharp |
| REGULATOR | PQ09RH1 | PQ090RDA2SZH | Sharp |
| REGULATOR | PQ120RD01SZ | PQ120RDA1SZH | Sharp |
| REGULATOR | PQ15RF2V | PQ15RW21J00H | Sharp |
| REGULATOR | PQ1CG41H3FZ | TO-220 (Heat Sink), SW Reg, Vin~40V, 1.5A, sleeve, 300kHz...No Replacement | Sharp |
| REGULATOR | PQ1CG41H3RZ | TO-220 (Free Stand), SW Reg, Vin~40V, 1.5A, sleeve, 300kHz...No Replacement | Sharp |
| REGULATOR | PQ1K213M2ZP | PQ1KA213MZPH | Sharp |
| REGULATOR | PQ1K353M2ZP | PQ1KA353MZPH | Sharp |
| REGULATOR | PQ1K393M2ZP | PQ1KA393MZPH | Sharp |
| REGULATOR | PQ1K423M2ZP | PQ1KA423MZPH | Sharp |
| REGULATOR | PQ1R38 | PQ1KA383MZPH - Contact Factory | Sharp |
| REGULATOR | PQ20VZ11 | PQ200WNA1ZPH | Sharp |
| REGULATOR | PQ20VZ1U | PQ200WNA1ZPH | Sharp |
| REGULATOR | PQ20VZ51 | PQ200WNA1ZPH | Sharp |
| REGULATOR | PQ20VZ5U | PQ200WNA1ZPH | Sharp |
| REGULATOR | PQ2TZ15 | PQ025ENA1ZPH | Sharp |
| REGULATOR | PQ2TZ15U | PQ025ENA1ZZH | Sharp |
| REGULATOR | PQ2TZ55 | PQ025EN5MZPH | Sharp |
| REGULATOR | PQ2TZ55U | PQ025EN5MZZH | Sharp |
| REGULATOR | PQ3RF23 | PQ3RD23J000H | Sharp |
| REGULATOR | PQ3RF43 | TO-220, LDO, 3.3V, 4A, sleeve...No Replacement | Sharp |
| REGULATOR | PQ3TR5M3AZZ | No Replacement | Sharp |
| REGULATOR | PQ3TR5M3BZP | No Replacement | Sharp |
| REGULATOR | PQ3TR5M3CZP | No Replacement | Sharp |
| REGULATOR | PQ3TR5M3CZZ | No Replacement | Sharp |

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| REGULATOR | PQ3TR5M3DZP | No Replacement | Sharp |
| REGULATOR | PQ3TR5M3DZZ | No Replacement | Sharp |
| REGULATOR | PQ5RS1A | No Replacement | Sharp |
| SSR | PR29MD22NSZ | PR39MF22NSZF | Sharp |
| SSR | PR308S31ESU | S202S01F | Sharp |
| SSR | PR308S41ESU | S202S02F | Sharp |
| SSR | PR308T11ESZ | S202S01F | Sharp |
| SSR | PR308T21ESZ | S202S02F | Sharp |
| SSR | PR33MD22NSZ | PR36MF22NSZF | Sharp |
| SSR | PR36MD22NSZ | PR36MF22NSZF | Sharp |
| SSR | PR39MD22NSZ | PR39MF22NSZF | Sharp |
| DETECTOR | PT4121 | No Replacement | Sharp |
| DETECTOR | PT491 | PT491FE0000f | Sharp |
| DETECTOR | PT493 | PT493FE0000F | Sharp |
| DETECTOR | PT493FL | PT493FE0000F | Sharp |
| DETECTOR | PT493FL1 | PT493FE0000F | Sharp |
| DETECTOR | PT495F | PT493FE0000F | Sharp |
| SSR | S101N11 | S202T01F w/ customer supplied snubber | Sharp |
| SSR | S101S15V | S101S05F w/ customer supplied snubber | Sharp |
| SSR | S102S03 | No Replacement | Sharp |
| SSR | S105T01 | S108T01F | Sharp |
| SSR | S105T02 | S108T02F | Sharp |
| SSR | S112S02 | S116S02F | Sharp |
| SSR | S202S03 | No Replacement | |
| SSR | S202TY1 | No Replacement | |
| SSR | S202TY2 | No Replacement | |
| SSR | S205T01 | S208T01F | Sharp |
| SSR | S205T02 | S208T02F | Sharp |
| SSR | S208TY1 | No Replacement | |
| SSR | S208TY2 | No Replacement | |
| PTC | S21MS6 | No Replacement | |
| PTC | S21MT2 | PC3ST21NSZBF | Sharp |
| PTC | S2S3R | S2S3LA | Sharp |
| PTC | S2S4AY | S2S4LY0F | Sharp |

Product Change Notification (cont'd)

Customers must notify Sharp Microelectronics of the Americas in writing 90 days before the last buy date if they consider the discontinued product to be "Single Source". Sharp Microelectronics and the customer may negotiate an appropriate End-of-Life Agreement.

In case of further questions, please contact your [SHARP sales representative](#).

Customer Acknowledgement of receipt of product discontinuance.

Acceptance:

Name _____ Title _____

Company _____ Date _____