






■ Phototriac Coupler Lineup

| Package | Applied voltage | ON-state current (rms) | Features | Model No. | Page |
|--|---|------------------------|-----------------------------|--|------|
| Mini-flat (SMD)  | AC 200 V lines (V _{DRM} = 600V) | 0.05 A | General purpose | S2S3A00F ^{*3} / S2S5A00F ^{*3} / S2S5FA0F ^{*3} | 18 |
| | | | Built-in zero-cross circuit | S2S4A00F ^{*3} | 19 |
| DIP type (4-pin)  | AC 200 V lines (V _{DRM} = 600V) | 0.1 A | Reinforced isolation | PC3SH11YFZAH ^{*3} / PC3SH13YFZAH ^{*3} | 18 |
| | | | Built-in zero-cross circuit | PC3SH21YFZBH ^{*2} | 19 |
| DIP type (6-pin package, 5th-pin cut)  | AC 200 V lines (V _{DRM} = 600V) | 0.1 A | General purpose | PC3SD12NTZAH ^{*3} / PC3SD11NTZBH ^{*2} / PC3SD11NTZCH ^{*1} | 18 |
| | | | Built-in zero-cross circuit | PC3SD21NTZAH ^{*3} / PC3SD21NTZBH ^{*2} / PC3SD21NTZDH ^{*4} | 19 |
| | | | Reinforced isolation | PC3SF11YVZAH ^{*3} / PC3SF11YVZBH ^{*2} | 18 |
| | | | Built-in zero-cross circuit | PC3SF21YVZAH ^{*3} / PC3SF21YVZBH ^{*2} | 19 |
| | | | General purpose | PC4SD11NTZCH ^{*1} | 18 |
| | | | Built-in zero-cross circuit | PC4SD21NTZCH ^{*1} / PC4SD21NTZDH ^{*4} | 19 |
| | AC 200 V lines (V _{DRM} = 800V) | 0.1 A | General purpose | PC4SD11NTZCH ^{*1} | 18 |
| | | | Built-in zero-cross circuit | PC4SD21NTZCH ^{*1} / PC4SD21NTZDH ^{*4} | 19 |
| | | | Reinforced isolation | PC4SF11YTBZH ^{*2} | 18 |
| | | | Built-in zero-cross circuit | PC4SF21YVZBH ^{*2} / PC4SF21YWPSH ^{*2} | 19 |

Minimum trigger current: *1 I_{FT} ≤ 5 mA, *2 I_{FT} ≤ 7 mA, *3 I_{FT} ≤ 10 mA, *4 I_{FT} ≤ 3 mA



■ Phototriac Couplers

○: Approved

(Ta = 25°C)

| Model No. | Internal connection diagram | Features | Approved by safety standards*3 | | | Package | Absolute maximum ratings | | | Electro-optical characteristics | | |
|--------------|-----------------------------|--|--------------------------------|-----|--------------------------|-----------------|---|--|--|---------------------------------|--|----|
| | | | UL, CSA | VDE | BSI, SEMKO, DEMKO, FIMKO | | ON-state current I _T (rms) (A) | Repetitive peak OFF-state voltage V _{DRM} (V) | Isolation voltage (AC) V _{iso} (rms) (kV) | | Min. trigger current I _{FT} (mA) MAX. V _D = 6 V, R _L = 100Ω | |
| S2S3A00F | | 200 V lines, compact | ○ | - | - | Mini-flat 4-pin | 0.05 | 600 | 3.75 | 10 | | |
| S2S5A00F | | 200 V lines, compact | ○ | - | - | | | | | 10 | | |
| S2S5FA0F | | High impulse noise product | ○ | - | - | | | | | 10 | | |
| PC3SH11YFZAH | | 200 V lines, compact, reinforced isolation | ○ | ○ | ○ | 4-pin DIP | 0.1 | 5.0 | 5.0 | 10 | | |
| PC3SH13YFZAH | | 200 V lines, compact, reinforced isolation, high noise resistance | ○ | ○ | ○ | | | | | 10 | | |
| PC3SD12NTZAH | | 200 V lines | ○ | ○*4 | - | 6-pin DIP*2 | 0.1 | 600 | 5.0 | 5.0 | 10 | |
| PC3SD11NTZBH | | | ○ | - | - | | | | | | 7 | |
| PC3SD11NTZCH | | | ○ | ○*4 | - | | | | | | 5 | |
| PC4SD11NTZCH | | 200 V lines, repetitive peak-OFF-state voltage | ○ | - | - | 6-pin DIP*1, *2 | | | | | 800 | 5 |
| PC3SF11YVZAH | | 200 V lines, reinforced isolation | ○ | ○ | ○ | 6-pin DIP*2 | | | | | 600 | 10 |
| PC3SF11YVZBH | | 200 V lines, reinforced isolation | ○ | ○ | ○ | 6-pin DIP*1, *2 | | | | | 800 | 7 |
| PC4SF11YTZBH | | 200 V lines, reinforced isolation, repetitive peak-OFF-state voltage | ○ | ○ | ○ | 6-pin DIP*2 | | | | | 800 | 7 |

*1 Lead forming type is also available for surface mounting.

*2 These are 5th-pin cut type.

*3 Please refer to Specification Sheets for model numbers approved by safety standards.

*4 Optionally available.

Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc.

Except where specially indicated, models listed on this page comply with the EU RoHS Directive*. For details, please contact SHARP.

*EU RoHS Directive: EU legislation restricting the use of lead, cadmium, hexavalent chromium, mercury, specific brominated flame retardants (PBB and PBDE), and phthalates (DEHP, BBP, DBP, DIBP).

Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.