

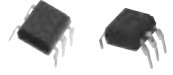




■ Phototriac Coupler Lineup

| 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 | 20 |
|  | | | Built-in zero-cross circuit | S2S4A00F* ³ | 21 |
| DIP type (4-pin) | AC 200 V lines (V _{DRM} = 600V) | 0.1 A | Reinforced isolation | PC3SH11YFZAH* ³ / PC3SH13YFZAH* ³ | 20 |
|  | | | Built-in zero-cross circuit | PC3SH21YFZBH* ² | 21 |
| DIP type (6-pin package, 5th-pin cut) | AC 200 V lines (V _{DRM} = 600V) | 0.1 A | General purpose | PC3SD12NTZAH* ³ / PC3SD11YTZCH* ¹ / PC3SD11NTZCH* ¹ | 20 |
|  | | | Built-in zero-cross circuit | PC3SD21NTZAH* ³ / PC3SD21NTZBH* ² / PC3SD21NTZDH* ⁴ | 21 |
| | | | Reinforced isolation | PC3SF11YVZAH* ³ / PC3SF11YVZBH* ² | 20 |
| | | | Built-in zero-cross circuit | PC3SF21YVZAH* ³ / PC3SF21YVZBH* ² | 21 |
| | AC 200 V lines (V _{DRM} = 800V) | 0.1 A | General purpose | PC4SD11NTZCH* ¹ | 20 |
| | | | Built-in zero-cross circuit | PC4SD21NTZCH* ¹ / PC4SD21NTZDH* ⁴ | 21 |
| | | | Reinforced isolation | PC4SF11YTZBH* ² | 20 |
| | | | Built-in zero-cross circuit | PC4SF21YVZBH* ² / PC4SF21YWPSH* ² | 21 |

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

△: Please confirm with our sales representatives.

(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) | |
| S2S3A00F | | 200 V lines, compact | ○ | ○*4 | — | Mini-flat 4-pin | 0.05 | 600 | 3.75 | 10 |
| S2S5A00F | | 200 V lines, compact | ○ | ○*4 | — | | | | | 10 |
| S2S5FA0F | | High impulse noise product | ○ | ○*4 | — | | | | | 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 | 10 |
| PC3SD11YTZCH | | 200 V lines | △ | △*4 | — | 6-pin DIP*1, *2 | | | | 5 |
| PC3SD11NTZCH | | 200 V lines | △ | △*4 | — | 6-pin DIP*2 | | | | 5 |
| PC4SD11NTZCH | | 200 V lines, repetitive peak-OFF-state voltage | △ | △*4 | — | 6-pin DIP*1, *2 | | | | 5 |
| PC3SF11YVZAH | | 200 V lines, reinforced isolation | △ | △ | △ | 6-pin DIP*2 | | | | 10 |
| PC3SF11YVZBH | | 200 V lines, reinforced isolation | △ | △ | △ | 6-pin DIP*1, *2 | | | | 7 |
| PC4SF11YTZBH | | 200 V lines, reinforced isolation, repetitive peak-OFF-state voltage | △ | △ | △ | 6-pin DIP*2 | | | | 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 RoHS Directive*. For details, please contact SHARP.

*RoHS Directive: Prohibits use of lead, cadmium, hexavalent chromium, mercury and specific brominated flame retardants (PBBs and PBDEs), with certain exceptions.

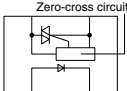
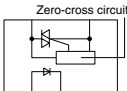
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■ Phototriac Couplers

<Built-in zero-cross circuit type>

○: Approved

△: Please confirm with our sales representatives. (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 V _{DRM} (V) | Isolation voltage (AC) V _{iso} (rms) (kV) | Min. trigger current I _{FT} (mA) MAX. V _D = 4 V, R _L = 100Ω | |
| S2S4A00F |  | 200 V lines, compact | ○ | ○*4 | — | Mini-flat 4-pin | 0.05 | 600 | 3.75 | 10*1 | |
| PC3SH21YFZBH | | 200 V lines, compact, reinforced isolation | △ | △ | △ | 4-pin DIP | 0.1 | 600 | 5.0 | 7 | |
| PC3SD21NTZAH |  | 200 V lines, low zero-cross voltage: MAX. 20 V | △ | — | — | 6-pin DIP*2 | 0.1 | 600 | 5.0 | 10 | |
| PC3SD21NTZBH | | 200 V lines, low zero-cross voltage: MAX. 20 V | △ | △*4 | — | | | | | 7 | |
| PC3SD21NTZDH | | 200 V lines, low zero-cross voltage: MAX. 20 V | △ | — | — | | | | | 3 | |
| PC4SD21NTZCH | | 200 V lines, repetitive peak-OFF-state voltage | △ | — | — | | | | | 800 | 5 |
| PC4SD21NTZDH | | 200 V lines, repetitive peak-OFF-state voltage | △ | — | — | | | | | | 3 |
| PC3SF21YVZAH | | 200 V lines, reinforced isolation | △ | △ | △ | | | | | 600 | 10 |
| PC3SF21YVZBH | | 200 V lines, reinforced isolation | △ | △ | △ | | | | | | 7 |
| PC4SF21YVZBH | | 200 V lines, reinforced isolation, repetitive peak-OFF-state voltage | △ | △ | △ | | | | | 800 | 7 |
| PC4SF21YWPSH | | High impulse noise product | △ | △ | △ | | | | | | 7 |

*1 $V_D = 6\text{ V}$, $R_L = 100\Omega$

*2 These are 5th-pin cut type.

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

*4 Optionally available.



S2S3A00F
(Mini-flat 4-pin)



PC3SH series
(4-pin DIP)



PC3SD series,
PC4SD series
(6-pin DIP)



PC3SF series,
PC4SF series
(6-pin DIP)

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