






■ 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}	41
			Built-in zero-cross circuit	S2S4A00F ^{*3}	42
DIP type (4-pin) 	AC 200 V lines (V _{DRM} = 600V)	0.1 A	General purpose	PC3ST11NSZKF	41
			Reinforced isolation	PC3SH11YFZAX ^{*3} / PC3SH13YFZAX ^{*3}	41
			Built-in zero-cross circuit	PC3SH21YFZBX ^{*2}	42
DIP type (6-pin package, 5th-pin cut) 	AC 100 V lines (V _{DRM} = 400V)	0.1 A	General purpose	PC2SD11NTZAF ^{*3}	41
	AC 200 V lines (V _{DRM} = 600V)	0.1 A	General purpose	PC3SD12NTZAF ^{*3} / PC3SD11YTZCF ^{*1} / PC3SD11NTZCF ^{*1} / PC3SD13YXZBF ^{*2}	41
			Built-in zero-cross circuit	PC3SD21NTZAF ^{*3} / PC3SD21NTZBF ^{*2} / PC3SD21NTZDF ^{*4}	42
	AC 200 V lines (V _{DRM} = 800V)	0.1 A	Reinforced isolation	PC3SF11YVZAF ^{*3} / PC3SF11YVZBF ^{*2}	41
			Built-in zero-cross circuit	PC3SF21YVZAF ^{*3} / PC3SF21YVZBF ^{*2}	42
			General purpose	PC4SD11NTZCF ^{*1}	41
			Built-in zero-cross circuit	PC4SD21NTZCF ^{*1} / PC4SD21NTZDF ^{*4}	42
			Reinforced isolation	PC4SF11YTZBF ^{*2}	41
			Built-in zero-cross circuit	PC4SF21YVZBF ^{*2} / PC4SF21YWPSF ^{*2}	42

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 ^{*4}			Package	Absolute maximum ratings			Electro-optical characteristics	
			UL, CSA	VDE	Others		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	○	○*6	—	Mini-flat 4-pin	0.05	600	3.75	10	
S2S5A00F		200 V lines, compact	○	○*6	—					10	
S2S5FA0F		High impulse noise product	○	○*6	—					10	
PC3ST11NSZKF		200 V lines, compact	○	○*6	—	4-pin DIP	0.1		5.0	10	
PC3SH11YFZAX		200 V lines, compact, reinforced isolation	○	○	○*2					10	
PC3SH13YFZAX		200 V lines, compact, reinforced isolation, high noise resistance	○	○	○*2					10	
PC2SD11NTZAF		100 V lines	○	—	—	6-pin DIP*1, 3	0.1	400	5.0	10	
PC3SD12NTZAF		200 V lines	○	○*6	—			600		10	
PC3SD13YXZBF		High impulse noise product	○	○*6	—			600		7	
PC3SD11YTZCF		200 V lines	○	○*6	—			600		5	
PC3SD11NTZCF		200 V lines	○	○*6	—			600		5	
PC4SD11NTZCF		200 V lines, repetitive peak-OFF-state voltage	○	○*6	—			800		5	
PC3SF11YVZAF		200 V lines, reinforced isolation	○	○	○*2			600		10	
PC3SF11YVZBF		200 V lines, reinforced isolation	○	○	○*2			600		7	
PC4SF11YTZBF		200 V lines, reinforced isolation, repetitive peak-OFF-state voltage	○	○	○*2			800		7	

For the notes *1 to *6, see next page.

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.

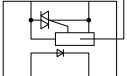
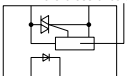
Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.



■ Phototriac Couplers (Built-in zero-cross circuit type)

○: Approved

(Ta = 25°C)

Model No.	Internal connection diagram	Features	Approved by safety standards*4			Package	Absolute maximum ratings			Electro-optical characteristics	
			UL, CSA	VDE	Others		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	○	○*6	—	Mini-flat 4-pin	0.05	600	3.75	10 ⁻⁵	
PC3SH21YFZBX		200 V lines, compact, reinforced isolation	○	○	○*2	4-pin DIP	0.1	600	5.0	7	
PC3SD21NTZAF		200 V lines, low zero-cross voltage: MAX. 20 V	○	○*6	—	6-pin DIP*1,3	0.1	600	5.0	10	
PC3SD21NTZBF		200 V lines, low zero-cross voltage: MAX. 20 V	○	○*6	—					7	
PC3SD21NTZDF		200 V lines, low zero-cross voltage: MAX. 20 V	○	○*6	—					3	
PC4SD21NTZCF		200 V lines, repetitive peak-OFF-state voltage	○	○*6	—			800		5	
PC4SD21NTZDF		200 V lines, repetitive peak-OFF-state voltage	○	○*6	—					3	
PC3SF21YVZAF		200 V lines, reinforced isolation	○	○	○*2	600		10			
PC3SF21YVZBF		200 V lines, reinforced isolation	○	○	○*2			7			
PC4SF21YVZBF		200 V lines, reinforced isolation, repetitive peak-OFF-state voltage	○	○	○*2	800		7			
PC4SF21YWPSF		High impulse noise product	○	○	○*2			6-pin DIP*3		7	

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

*2 In conformance with BSI, SEMKO, DEMKO, and FIMKO

*3 These are molded pin No. 5.

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

*5 V_D = 6 V, R_L = 100Ω

*6 Optionally available

S2S3A00F
(Mini-flat 4-pin)PC3ST series
(4-pin DIP)PC3SH series
(4-pin DIP)PC2SD11NTZAF
(PC3SD series,
PC4SD series)
(6-pin DIP)PC3SF series
(PC4SF series)
(6-pin DIP)

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.

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