

Type of relay		Power PhotoMOS Type								Power PhotoMOS with Internal varistor Type							
		1a Type				1b Type				1a Type							
		AC/DC Type		DC Type		AC/DC Type		DC Type		AC/DC Type		AC/DC Type					
* Features		• High capacity PhotoMOS Relay in a compact and slim 4-pin SIL								• High Capacity type • Compact Slim-type 4-pin SIL							
* Output		Part No.		AQZ202	AQZ205	AQZ207	AQZ204	AQZ102	AQZ105	AQZ107	AQZ104	AQZ404	AQZ202V	AQZ205V	AQZ207V	AQZ204V	
* Load voltage*		Peak AC		60 V	100 V	200 V	400 V	—	—	—	—	400 V	17 V**	30 V**	60 V**	140 V**	
		DC		60 V	100 V	200 V	400 V	60 V	100 V	200 V	400 V	400 V	22 V	38 V	85 V	180 V	
* Continuous load current		3 A		3 A	2 A	1 A	0.5 A	4 A	2.6 A	1.3 A	0.7 A	0.5 A	3 A	2 A	1 A	0.5 A	
* Peak load current		9.0 A		6.0 A	3.0 A	1.5 A	9.0 A	6.0 A	3.0 A	1.5 A	1.5 A	9.0 A	6.0 A	3.0 A	1.5 A	1.5 A	
* Power dissipation*		1.6 W				1.35 W				1.6 W							
* ON resistance		Typical		0.11 Ω	0.23 Ω	0.7 Ω	2.1 Ω	0.05 Ω	0.08 Ω	0.34 Ω	1.06 Ω	2.8 Ω	0.11 Ω	0.23 Ω	0.7 Ω	2.1 Ω	
		Maximum		0.18 Ω	0.34 Ω	1.1 Ω	3.2 Ω	0.09 Ω	0.17 Ω	0.55 Ω	1.6 Ω	4.0 Ω	0.18 Ω	0.34 Ω	1.1 Ω	3.2 Ω	
* Output capacitance (Typical)		1,400 pF		600 pF		1,700 pF		900 pF		2,000 pF		2,200 pF		800 pF		700 pF	
* Off state leakage current (Max.)		10 μA				10 μA				10 μA				1 mA			
* Input		LED operate current (LED operate (OFF) current)		Typical				1.0 mA				1.0 mA					
				Maximum				3.0 mA				3.0 mA					
		LED turn off current (LED reverse (ON) current)		Minimum				0.4 mA				0.4 mA					
				Typical				0.9 mA				0.9 mA					
		LED dropout voltage (I _f = 50 mA)		Typical				1.25 V				1.25 V					
				Maximum				1.5 V				1.5 V					
* Switching speed		Turn on time (Operate (OFF) time)		2.46 ms	2.40 ms	1.12 ms	1.65 ms	1.66 ms	1.89 ms	0.83 ms	1.01 ms	3.9 ms	2.46 ms	2.40 ms	1.12 ms	1.65 ms	
				5.0 ms	5.0 ms	5.0 ms	5.0 ms	5.0 ms	5.0 ms	5.0 ms	5.0 ms	7.5 ms	5.0 ms	5.0 ms	5.0 ms	5.0 ms	
		Turn off time (Reverse (ON) time)		0.22 ms	0.21 ms	0.10 ms	0.08 ms	0.15 ms	0.19 ms	0.10 ms	0.08 ms	0.8 ms	0.22 ms	0.21 ms	0.10 ms	0.08 ms	
				3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	3.0 ms	
* Total power dissipation*		1.6 W				1.35 W				1.6 W							
* I/O isolation voltage*		2,500 V AC				2,500 V AC				2,500 V AC							
* Temperature limits		Operating*		-40°C to +85°C -40°F to +185°F				-40°C to +85°C -40°F to +185°F				-40°C to +85°C -40°F to +185°F					
		Storage*		-40°C to +100°C -40°F to +212°F				-40°C to +100°C -40°F to +212°F				-40°C to +100°C -40°F to +212°F					
* I/O capacitance		Typical		0.8 pF				0.8 pF				0.8 pF					
		Maximum		1.5 pF				1.5 pF				1.5 pF					
* Initial I/O isolation resistance		Min. 1,000 MΩ				Min. 1,000 MΩ				Min. 1,000 MΩ							
* Terminal layout (100-inch grid)																	
* Standards		UL (E43149), CSA (LR26550), TÜV								UL (E43149), CSA (LR26550), TÜV				UL (E43149), CSA (LR26550), TÜV			
* Mounting method																	

Note: Meaning of symbol marks : PC board terminal; : Surface-mounting

*The values are absolute maximum ratings (25°C 77°F). [] : Representation in case of Form B type contact PhotoMOS Relay.