

PhotoMOS

Type of relay		GU Type									
		1a Type				1b Type					
		AC/DC Type				AC/DC Type					
* Type of relay											
									Standard I/O isolation type		
* Features		• General use				• Normally-closed type (1 From B)					
		Part No.	AQV212	AQV215	AQV217	AQV210	AQV214	AQV216	AQV214H	AQV414	
* Load voltage		Peak AC	60 V	100 V	200 V	350 V	400 V	600 V	400 V	400 V	
		DC	60 V	100 V	200 V	350 V	400 V	600 V	400 V	400 V	
* Output		Continuous load current									
		Peak load current	1.2 A	0.96 A	0.54 A	0.4 A	0.3 A	0.15 A	0.3 A	0.3 A	
		Power dissipation*	500 mW								
* ON resistance		Typical	0.83 Ω	2.3 Ω	11 Ω	23 Ω	30 Ω	70 Ω	30 Ω	26 Ω	
		Maximum	2.5 Ω	4 Ω	15 Ω	35 Ω	50 Ω	120 Ω	50 Ω	50 Ω	
		Output capacitance (Typical)	150 pF	110 pF	70 pF	45 pF			100 pF		
		Off state leakage current	Max. 1 μA								
* Input		LED forward current*	50 mA								
		LED reverse voltage*	3 V								
		Peak forward current	1 A								
		Power dissipation*	75 mW								
		LED operate current (LED operate (OFF) current)	Typical 1 mA				Maximum 3 mA			1.3 mA	
		LED turn off current (LED reverse (ON) current)	Typical 0.4 mA				Maximum 0.79 mA			0.4 mA	
		LED dropout voltage (I <sub>f</sub> = 5 mA)	Typical 1.14 V				Maximum 1.5 V			1.14 V	
* Switching speed		Turn on time (Operate (OFF) time)	Typical 0.65 ms	0.60 ms	0.25 ms	0.25 ms	0.21 ms	0.28 ms	0.6 ms	0.47 ms	
		Maximum	2 ms	2 ms	1 ms	0.5 ms	0.5 ms	0.5 ms	0.8 ms	1 ms	
		Turn off time (Reverse (ON) time)	Typical 0.08 ms	0.06 ms	0.05 ms	0.05 ms	0.05 ms	0.04 ms	0.05 ms	0.28 ms	
		Maximum	0.2 ms	0.2 ms	0.2 ms	0.2 ms	0.2 ms	0.2 ms	0.2 ms	1 ms	
		Total power dissipation*	550 mW								
* I/O isolation voltage*		1,500 V AC				5,000 V AC			1,500 V AC		
* Temperature limits		Operating*	-40°C to +85°C -40°F to +185°F								
		Storage*	-40°C to +100°C -40°F to +212°F								
* I/O capacitance		Typical	0.8 pF								
		Maximum	1.5 pF								
* Initial I/O isolation resistance		Min. 1,000 MΩ									
* Terminal layout (100. inch grid)		Through hole terminal (Bottom view)		Surface mount terminal recommended mounting pad (Top view)			Through hole terminal (Bottom view)				
		Tolerance: ±0.1 ±.004		Tolerance: ±0.1 ±.004			Tolerance: ±0.1 ±.004				
* Standards		UL (E43149), CSA (LR26550), TÜV				UL (E43149), CSA (LR26550), TÜV, BSI, VDE			UL (E43149), CSA (LR26550), TÜV		
* Mounting method											

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