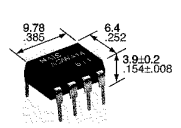
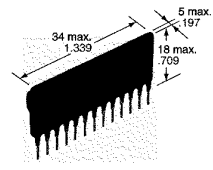
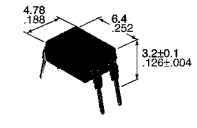
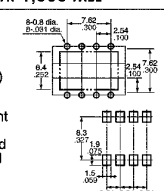
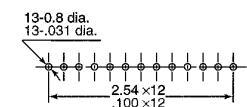
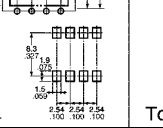
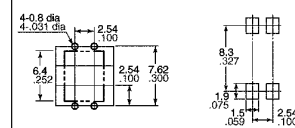




PhotoMOS

		GU Type		GU-E Type		
		2b Type	Multi-channel(4a) Type	1a Types		
		AC/DC Type	AC/DC Type	AC/DC Type		
Type of relay   				Reinforced I/O isolation type		
Features <ul style="list-style-type: none"> • 2 Form B type • Approx. 1/2 smaller compared with proximity mounting of two 1 Form B units 		<ul style="list-style-type: none"> • 4-circuit (4 Form A) type in a compact and slim 13-pin SIL 		<ul style="list-style-type: none"> • General use and economy type • DIP (1 Form A) 4-pin type 		
		Part No.	AQW414	AQX21444	AQY210EH	AQY214EH
Load voltage	Peak AC	400 V	400 V	350 V	400 V	
	DC	400 V	400 V	350 V	400 V	
Continuous load current <small>1 A</small> <small>0.5 A</small>						
Output	Peak load current	0.1 A	0.08 A	0.13 A	0.12 A	
	Power dissipation*	800 mW	1.45 W	500 mW		
	ON resistance	26 Ω	30 Ω	18 Ω	26 Ω	
	Typical Maximum	50 Ω	50 Ω	25 Ω	35 Ω	
	Output capacitance (Typical)	100 pF	45 pF	45 pF		
	Off state leakage current	Max. 1 μA	Max. 1 μA	Max. 1 μA		
	LED forward current*	50 mA	50 mA	50 mA		
LED reverse voltage*	3 V	3 V	3 V			
Peak forward current	1 A	1 A	1 A			
Power dissipation*	75 mW	75 mW	75 mW			
Input	LED operate current (LED operate (OFF) current)	Typical 0.7 mA Maximum 3.0 mA	Typical 1.1 mA Maximum 3 mA	Typical 1.2 mA Maximum 3.0 mA		
	LED turn off current (LED reverse (ON) current)	Typical 0.4 mA Maximum 0.64 mA	Typical 0.4 mA Maximum 1.0 mA	Typical 0.4 mA Maximum 1.1 mA		
	LED dropout voltage (I_f = 5 mA)	Typical 1.14 V Maximum 1.5 V	Typical 1.14 V Maximum 1.5 V	Typical 1.14 V Maximum 1.5 V		
Switching speed	Turn on time (Operate (OFF) time)	Typical 0.46 ms Maximum 1 ms	Typical 0.29 ms Maximum 1 ms	Typical 0.5 ms Maximum 2.0 ms		
	Turn off time (Reverse (ON) time)	Typical 0.40 ms Maximum 1 ms	Typical 0.19 ms Maximum 0.5 ms	Typical 0.08 ms Maximum 1.0 ms		
Total power dissipation*	850 mW	1.5 W	550 mW			
I/O isolation voltage*	1,500 V AC	1,500 V AC	5,000 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 Maximum 1.5 pF	4.0 pF 8.0 pF	0.8 pF 1.5 pF			
Initial I/O isolation resistance	Min. 1,000 MΩ	Min. 1,000 MΩ	1,000 MΩ			
Terminal layout <small>(100-mesh grid)</small>	Through hole terminal (Bottom view)		13-0.8 dia. 13-0.031 dia. 	Through hole terminal (Bottom view)	Surface mount terminal recommended mounting pad (Top view)	
	Surface mount terminal recommended mounting pad (Top view)		Tolerance: ±0.1 ±0.04		Tolerance: ±0.1 ±0.04	
Standards	UL (E43149), CSA (LR26550), TÜV			UL (E43149), BSI, CSA (LR26550)		
Mounting method						

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