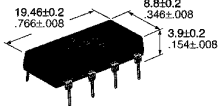
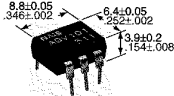
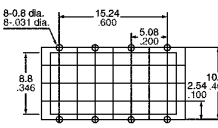
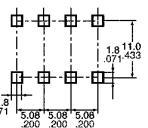
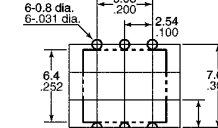
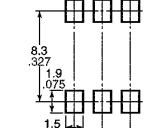



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• Type of relay		PD Type				HF Type					
		2a Type				1a Type					
		AC/DC Type				DC Type					
• Features											
		<ul style="list-style-type: none"> <li>Flat-Packaged type</li> <li>High sensitivity</li> </ul>				<ul style="list-style-type: none"> <li>Low on-resistance</li> <li>Control with an input current of 10 mA</li> </ul>					
• Output		Part No.	AQW272	AQW275	AQW277	AQW274	AQV101	AQV102	AQV103	AQV104	
• Load voltage*	Peak AC		60 V	100 V	200 V	400 V	—	—	—	—	
	DC		60 V	100 V	200 V	400 V	40 V	60 V	250 V	400 V	
• Continuous load current	1 A		1.8 A	1.1 A	0.55 A	0.3 A	0.7 A	0.6 A	0.3 A	0.18 A	
	0.5 A										
	Peak load current		6.0 A	4.0 A	2.0 A	1.0 A	1.8 A	1.5 A	0.6 A	0.5 A	
	Power dissipation*		1,100 mW				360 mW				
• ON resistance	Typical		0.11 Ω	0.23 Ω	0.7 Ω	2.1 Ω	0.3 Ω	0.37 Ω	2.7 Ω	6.3 Ω	
	Maximum		0.18 Ω	0.34 Ω	1.1 Ω	3.2 Ω	0.5 Ω	0.7 Ω	4 Ω	8 Ω	
• Output capacitance (Typical)			1,400 pF		600 pF		600 pF		300 pF		
• Off state leakage current			Max. 10 μA				Max. 1 μA				
• Input	LED forward current*		50 mA				50 mA				
	LED reverse voltage*		3 V				6 V				
	Peak forward current		1 A				1 A				
	Power dissipation*		75 mW				150 mW				
	LED operate current (LED operate (OFF) current)	Typical		1.0 mA				2.3 mA			
	Maximum			3.0 mA				5 mA			
LED turn-off current (LED reverse (ON) current)	Minimum		0.4 mA				0.8 mA				
Typical			0.9 mA				2.2 mA				
LED dropout voltage (I <sub>a</sub> = 5 mA)	Typical		1.25 V				2.3 V				
Maximum			1.5 V				3 V				
• Switching speed	Turn on time (Operate (OFF) time)	Typical	2.46 ms	2.40 ms	1.12 ms	1.65 ms	0.23 ms	0.22 ms	0.13 ms	0.09 ms	
	Maximum		5.0 ms	5.0 ms	5.0 ms	5.0 ms	1 ms	1 ms	1 ms	1 ms	
Turn off time (Reverse (ON) time)	Typical		0.22 ms	0.21 ms	0.10 ms	0.08 ms	0.07 ms	0.07 ms	0.07 ms	0.08 ms	
Maximum			3.0 ms	3.0 ms	3.0 ms	3.0 ms	1 ms	1 ms	1 ms	1 ms	
• Total power dissipation*			1,100 mW				410 mW				
• I/O isolation voltage*			2,500 V AC				1,500 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				
	Storage*		-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				1.3 pF				
Maximum			1.5 pF				3 pF				
• Initial I/O isolation resistance			Min. 1,000 MΩ				Min. 1,000 MΩ				
• Terminal layout (100 μinch grid)	Through hole terminal (Bottom 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), 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.