

**PhotoMOS**

		GU SOP Type											
		3a. MOSFET & 2 optocoupler			DAA			2 MOSFET & 1 optocoupler			1 MOSFET & 2 optocoupler		
		AC/DC Type			AC/DC Type			AC/DC Type			AC/DC Type		
<b>Type of relay</b>													
<b>Features</b>		• 3-channel (MOSFET & 2 optocouplers type)			• DAA (Data Access Arrangement) circuit package			• SO package 16-pin type in super miniature design			• SO package 16-pin type in super miniature design		
<b>Part No.</b>		AQW210T2S			AQS210PS			AQS210TS			AQS210T2S		
<b>Load voltage</b>	<b>Peak AC</b>	350 V			350 V			350 V			350 V		
	<b>DC</b>	350 V			350 V			350 V			350 V		
<b>Continuous load current</b>	1 A												
	0.5 A												
<b>Output</b>	<b>Peak load current</b>	0.12 A			0.12 A			0.1 A			0.12 A		
	<b>Power dissipation*</b>	400 mW			400 mW			600 mW			400 mW		
<b>ON resistance</b>	<b>Typical</b>	16 Ω			18 Ω			17 Ω			17 Ω		
	<b>Maximum</b>	35 Ω			25 Ω			25 Ω			25 Ω		
<b>Output capacitance (Typical)</b>		45 pF			45 pF			45 pF			45 pF		
	<b>Off state leakage current</b>	Max. 1 μA			Max. 1 μA			Max. 1 μA			Max. 1 μA		
<b>LED forward current*</b>		50 mA			50 mA			50 mA			50 mA		
	<b>LED reverse voltage*</b>	3 V			3 V			3 V			3 V		
<b>Peak forward current</b>		1 A			1 A			1 A			1 A		
	<b>Power dissipation*</b>	75 mW			75 mW			75 mW			75 mW		
<b>Input</b>	<b>LED operate current (LED operate (OFF) current)</b>	0.9 mA			0.9 mA			0.9 mA			0.9 mA		
	<b>LED turn off current (LED reverse (ON) current)</b>	3.0 mA			3.0 mA			3.0 mA			3.0 mA		
<b>LED dropout voltage (I<sub>F</sub> = 3 mA)</b>	<b>Typical</b>	1.14 V			1.14 V			1.14 V			1.14 V		
	<b>Maximum</b>	1.5 V			1.5 V			1.5 V			1.5 V		
<b>Switching speed</b>	<b>Turn on time (Operate (OFF) time)</b>	0.23 ms			0.23 ms			0.23 ms			0.23 ms		
	<b>Turn off time (Reverse (ON) time)</b>	0.5 ms			2.0 ms			1.0 ms			1.0 ms		
<b>Total power dissipation*</b>		650 mW			650 mW			650 mW			650 mW		
	<b>I/O isolation voltage*</b>	1,500 V AC			1,500 V AC			1,500 V AC			1,500 V AC		
<b>Temperature limits</b>	<b>Operating*</b>	-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			-40°C to +85°C -40°F to +185°F		
	<b>Storage*</b>	-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			-40°C to +100°C -40°F to +212°F		
<b>I/O capacitance</b>	<b>Typical</b>	0.8 pF			0.8 pF			0.8 pF			0.8 pF		
	<b>Maximum</b>	1.5 pF			1.5 pF			1.5 pF			1.5 pF		
<b>Initial I/O isolation resistance</b>		Min. 1,000 MΩ			Min. 1,000 MΩ			Min. 1,000 MΩ			Min. 1,000 MΩ		
	<b>Terminal layout (.100 inch grid)</b>												
<b>Standards</b>	UL (E43149), CSA (LR26550), TÜV, BSI						UL (E43149), CSA (LR26550), BSI						
<b>Mounting method</b>													

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