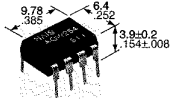
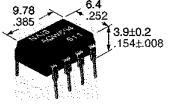
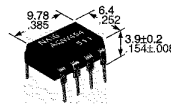
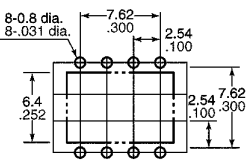
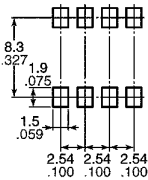





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# 7 RELAYS

Type of relay		HE Type			
		2a Type	1a1b Type	2b Type	
		AC/DC Type	AC/DC Type	AC/DC Type	
					
Features		<ul style="list-style-type: none"> <li>High sensitivity and low on-resistance</li> <li>2 Form A type</li> </ul>	<ul style="list-style-type: none"> <li>High sensitivity and low on-resistance</li> <li>1 Form A 1 Form B type</li> </ul>	<ul style="list-style-type: none"> <li>High sensitivity and low on-resistance</li> <li>2 Form B type</li> </ul>	
Output		Part No.	AQW254	AQW654	AQW454
Load voltage*		Peak AC	400 V	400 V	400 V
		DC	400 V	400 V	400 V
Continuous load current					
Peak load current			0.12 A	0.12 A	0.12 A
Power dissipation*			800 mW	800 mW	800 mW
ON resistance		Typical	12.4 Ω	10 Ω (N.O.), 11 Ω (N.C.)	11 Ω
		Maximum	16 Ω	16 Ω (N.O.), 16 Ω (N.C.)	16 Ω
Output capacitance (Typical)			170 pF	170 pF	170 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
LED operate current (LED operate (OFF) current)		Typical	0.9 mA	0.9 mA	0.9 mA
		Maximum	3.0 mA	3.0 mA	3.0 mA
LED turn-off current (LED reverse (ON) current)		Minimum	0.4 mA	0.4 mA	0.4 mA
		Typical	0.8 mA	0.8 mA	0.8 mA
LED dropout voltage (I <sub>f</sub> = 5 mA)		Typical	1.14 V	1.14 V	1.14 V
		Maximum	1.5 V	1.5 V	1.5 V
Switching speed		Turn on time (Operate (OFF) time)	Typical	0.8 ms (N.O.), 1.2 ms (N.C.)	1.2 ms
			Maximum	2.0 ms	2.0 ms
		Turn off time (Reverse (ON) time)	Typical	0.04 ms (N.O.), 0.36 ms (N.C.)	0.36 ms
			Maximum	1.0 ms	1.0 ms
Total power dissipation*			850 mW	850 mW	850 mW
I/O isolation voltage*			1,500 V AC	1,500 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	-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)		Through hole terminal (Bottom view)		Surface mount terminal recommended mounting pad (Top view)	
					
		Tolerance: ±0.1 ±.004			
Standards		UL (E43149), CSA (LR26550), TÜV			
Mounting method					

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