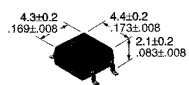
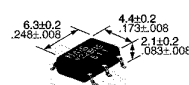
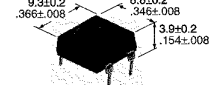
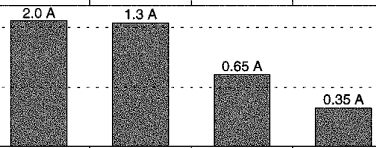
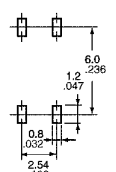
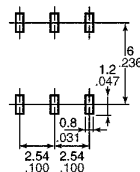
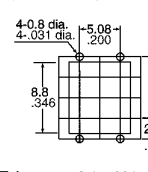
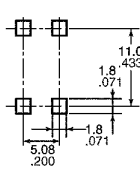


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7
RELAYS

			RF C × R 20 Type	RF SOP Low on resistance Type				PD Type			
			1a Type	1a Type				1a Type			
			AC/DC Type	AC/DC Type				AC/DC Type			
• Type of relay											
• Features			• Low output capacitance between output terminals and low ON-resistance			• High frequency type in SO package			• High capacity • High sensitivity		
		Part No.	AQY221N1S	AQV225NS	AQV227NS	AQV224NS	AQY272	AQY275	AQY277	AQY274	
• Output	Load voltage*	Peak AC	40 V	80 V	200 V	400 V	60 V	100 V	200 V	400 V	
		DC	40 V	80 V	200 V	400 V	60 V	100 V	200 V	400 V	
	Continuous load current										
	Peak load current		0.3 A	0.36 A	0.15 A	0.12 A	6.0 A	4.0 A	2.0 A	1.0 A	
	Power dissipation*		300 mW	450 mW			700 mW				
• Input	ON resistance	Typical	9.8 Ω	7 Ω	30 Ω	70 Ω	0.11 Ω	0.23 Ω	0.7 Ω	2.1 Ω	
		Maximum	12.5 Ω	10 Ω	50 Ω	100 Ω	0.18 Ω	0.34 Ω	1.1 Ω	3.2 Ω	
	Output capacitance (Typical)		2.0 pF	10 pF			1,400 pF		600 pF		
	Off state leakage current		10 nA	Max. 10 nA			Max. 10 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	0.7 mA			1.0 mA				
		Maximum	3 mA	3 mA			3.0 mA				
LED turn off current (LED reverse (ON) current)	Minimum	0.4 mA	0.4 mA			0.4 mA					
	Typical	0.85 mA	0.65 mA			0.9 mA					
LED dropout voltage (I _e = 5 mA)	Typical	1.14 V	1.14 V			1.25 V					
	Maximum	1.5 V	1.5 V			1.5 V					
• Switching speed	Turn on time (Operate (OFF) time)	Typical	0.04 ms	0.25 ms			2.46 ms	2.40 ms	1.12 ms	1.65 ms	
		Maximum	0.5 ms	0.5 ms			5.0 ms	5.0 ms	5.0 ms	5.0 ms	
Turn off time (Reverse (ON) time)	Typical	0.06 ms	0.08 ms			0.22 ms	0.21 ms	0.10 ms	0.08 ms		
	Maximum	0.2 ms	0.2 ms			3.0 ms	3.0 ms	3.0 ms	3.0 ms		
• Total power dissipation*		350 mW	500 mW			750 mW					
• I/O isolation voltage*		1,500 V AC	1,500 V AC			2,500 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)			Recommended mounting pad (Top view) 			Recommended mounting pad (Top view) 			Through hole terminal (Bottom view) 		Recommended mounting pad (Top view) 
• Standards			(UL, CSA, TÜV)			UL (E43149), CSA (LR26550), TÜV			UL (E43149), CSA (LR26550), TÜV		
• Mounting method											

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