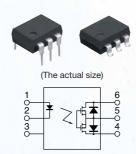






Compact and Long-life PhotoMOS relays for Frequent switching of 2 to 3A load



PhotoMOS Relays **HE 1 Form A High Capacity**

Can replace larger mechanical relays of up to 3.5A

- High Capacity of load current 3.5A* PhotoMOS relay DIP type comes to 3.5A. This contributes to make systems smaller and more reliable. Recommended for 12V and 2A to 3A load control.
- Low on-resistance of typ. $0.035\Omega^*$
- Offers improved system reliability and life-cycle cost.

PhotoMOS relays have no moving contact, consume less power and need less PC board.

* In case of A connection

- Recommended Applications
- Power supply



Testing equipment



Replacement of electromechanical relays used for purpose of 2 to 3A load control.

TYPES

Packing quantity: Tube packing style: Inner 50 pcs., Outer 500 pcs. Tape and reel packing style: Inner 1,000 pcs., Outer 1,000 pcs.

	Output rating*		Part No.			
			Through hole terminal	Surface-mount terminal		
	Load voltage	Load current	Tube packing style	Tube packing style	Tape and reel packing style	
					Picked from the 1/2/3-pin side	Picked from the 4/5/6-pin side
AC/DC	30V	3.5A	AQV251G	AQV251GA	AQV251GAX	AQV251GAZ

*Indicate the peak AC and DC values.

HE High capacity type Lineup

(Measurement condition: Ambient temperature 25°C 77°F)

			HE 1 Form A Hi	gh capacity (6pin)	HE SOP 1 Form A High capacity (6pin)	
				AC/DC		
			6.4	/DC	AC/DC	
Appearance configuration *Standoff height included (Unit: mm inch)			8.8 3.46	6.3 248 1732.1 083 (SOP6pin)		
Part No.			AQV251G	(DIP6pin) AQV252G	AQV255GS	
		Peak AC	30V	60V	80V	
Output	Load voltage	DC	30V	60V	80V	
	Continuous load current 2A— (In case of A connection) 1A—		3.5A	2.5A	1.25A	
	Peak load current		6.0A	6.0A	2.5A	
	Power dissipa	ation	500mW	500mW	450mW	
	ON resistance (In case of	е Тур.	0.035Ω	0.08Ω	0.09Ω	
	A connection) Max.	0.08Ω	0.12Ω	0.15Ω	
	Output capacitance (Typ.)		_	240pF	300pF	
	Off state leak	age current	1μΑ	1μΑ	1μΑ	
Input	LED forward current		50mA	50mA	50mA	
	LED reverse voltage		5V	5V	5V	
	Peak forward current		1A	1A	1A	
	Power dissipation		75mW	75mW	75mW	
	LED operate rent [LED ope		0.55mA	0.5mA	0.5mA	
	(OFF) current] Max.	3mA	3mA	3mA	
	LED turn off or		0.2mA	0.2mA	0.2mA	
	(ON) current]	Тур.	0.45mA	0.45mA	0.4mA	
	LED dropout	Тур.	1.25V (1.14V at IF = 5mA)	1.25V (1.14V at IF = 5mA)	1.32V (1.14V at IF = 5mA)	
	voltage	Max.	1.5V	1.5V	1.5V	
	Turn on time Typ.		1.1ms	1.1ms	1.3ms	
[Op	[Operate (OFF) time]		5.0ms	5.0ms	5.0ms	
	Turn off time Typ. [Reverse (ON) time] Max.		0.08ms	0.25ms	0.1ms	
_				0.5ms	0.5ms	
Total power dissipation			550mW	550mW	500mW	
	isolation volta		1,500V AC	1,500V AC	1,500V AC	
			-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 temperature —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	
Initial I/O isolation resistance (Min.)		istance (Min.)	1,000ΜΩ	1,000ΜΩ	1,000ΜΩ	
Terminal layout (Unit: mm inch)			Through hole terminal 6-0.8 dia. 5-0.8 dia. 6-0.8 dia. 7-0.00 100 7-6.2 100 100 100 100 100 100 100 1	Surface mount terminal 8.3 9.7 1.0 1.5 1.5 1.0 Recommended mounting pad	12 236 047 047 081 12 236 047 047 047 047 047 047 047 047	
• Tolerance: ±0.1 ±.004			(Bottom view)	(Top view) UL, C-UL, VDE	(Top view)	
Standards			_	UL, C-UL, VDE		
Mass (weight) (approx.)			0.453g	0.125g .004oz		

PhotoMOS relays lineup includes more products suited for high capacity switching.

Please see our website http:panasonic-electric-works.net/ac or inquire with a local sales representative.

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