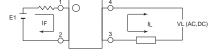
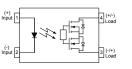
1 Form A GAQY237S SOP-4 Load Voltage:200V Load Current:400mA

Parameter	Symbol	Rating	Units	
Load Voltage	٧L	200	V	
Load Current	١L	0.40	А	
On-Resistance	Ron	1.8	Ω	
I/O Breakdown Voltage	V/ıo	2500	Vrms	

AC/DC







SUPSiC PhotoRelays

- Long life (No limit on mechanical and electrical
- lifetime)Bounce-free switching
- Higher speed and high frequency switching
- Higher sensitivity (less power consumption)
- Immunity to EMI or RFI

- No have voltaic arc, bounce, and noise More
- resistant to vibration and impact AC or DC load
- switching
- Small package size

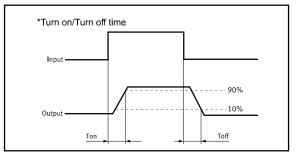
Applications

- Telecom/Datacom switching
- Multiplexers
- Meter reading systems
- Data acquisition
- Medical equipment
- Battery monitoring
- I/O Sub-Systems

- Robotics
- Aerospace
- Home/Safety security systems
- Process Control
- Energy Management
- Reed Relay EMR Replacement
- Programmable Controllers

TPYES

Cotogony	Outp	out Rating	Paakaga	Part No.	Packing Quantity	
Category	Load Voltage	Load Current	Package	Fait NO.		
AC/DC	200V	0.40A	SOP-4	GAQY237S	2000pcs /reel	







Absolute Maximum Ratings (Ta = 25°C)

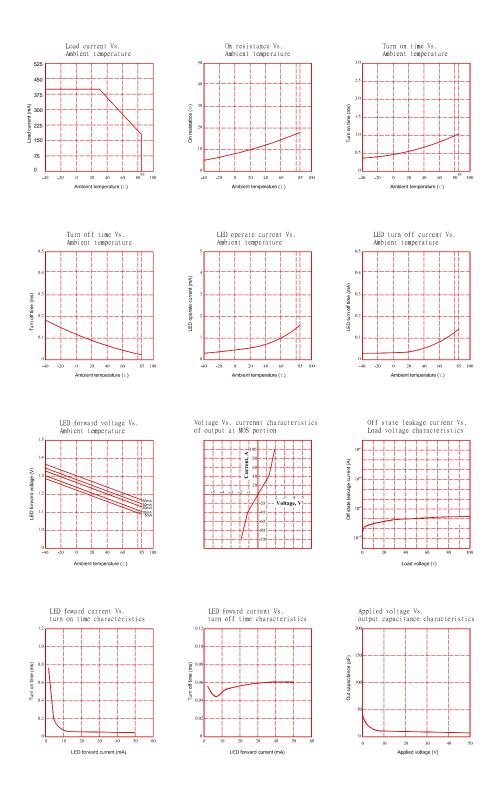
	Item	Symbol	Va l ue	Units	Note
Continuous LED Current		F	50	mA	
Input	Peak LED Current	FP	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	VR	5	V	
	Input Power Dissipation	Pin	75	mW	
	Load Voltage	VL	200	V(AC peak or DC)	
	Load Current	L	0.40	A	
Output	Peak Load Current	Peak	1.00	А	100ms(1 pulse)
	Output Power Dissipation	Pout	450	mW	
Total Powe	er Dissipation	Ρτ	500	mW	
I/O Breako	lown Voltage	Vi/o	2500	Vrms	RH=60%, 1min
Operating	Temperature	Topr	-40 to 85	C	
Storage Te	emperature	Tstg	-40 to 100	°C	
Pin Solder	ing Temperature	T _{sol}	260	°C	10 sec max.

Electrical Characteristics (Ta = 25°C)

	Item	Symbol	MIN.	TYP.	MAX.	Units	Conditions	
Input	LED Forward Voltage	VF		1.2	1.4	V	l⊧=10mA	
	Operation LED Current	Fon		0.5	2.0	mA		
	Recovery LED Current	Foff		0.35	0.5	mA		
	Recovery LED Voltage	VFoff	0.7			V		
Output	On-Resistance	Ron		1.8	3.5	Ω	l⊧=5mA,l∟=Max Time to flow is within 1 sec.	
	Off-State Leakage Current	Leak		0.1		uA	V₋=Rating	
	Output Capacitance	Cout		74		pF	V∟=0, f=1MHz	
Transmis	Turn-On Time	Ton		0.05	0.2	ms	l⊧=5mA, l∟=Max	
sion	Turn-Off Time	T _{off}		0.02	0.2	ms		
Onumbrat	I/O Isolation Resistance	Ri⁄o	10 ¹⁰			Ω	DC500V	
Coupled	I/O Capacitance	Ci/o		0.8	1.5	pF	f=1MHz	

Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value): IF ≥5mA and ≤30mA

Engineering Data

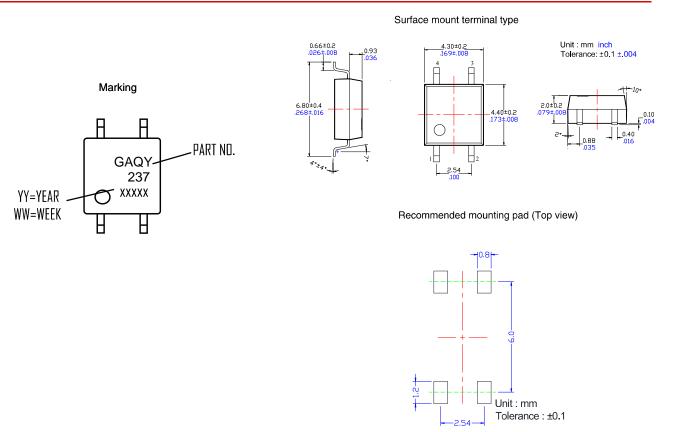


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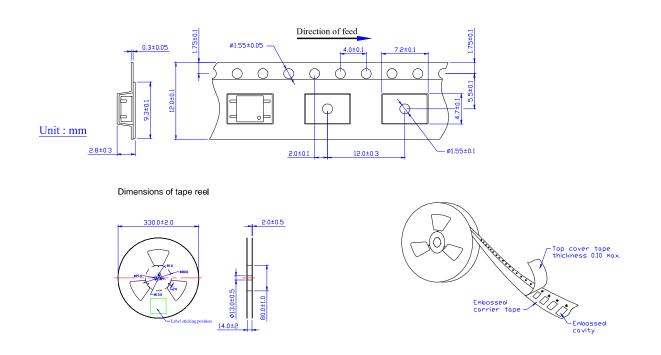
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Dimensions and Package



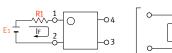
Tape dimensions

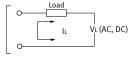


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Using Methods

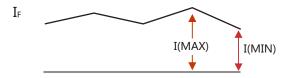
Examples of resistance value to control LED forward current (IF=5mA)





E1	R1 (Approx)
3.3V	300 Ω
5.0V	600 Ω
12V	1.9KΩ
24V	4.1K Ω

LED forward current must be more than 5mA , at I(MIN) ,and less than 30mA , at I(MAX).



Recommended Operating Conditions

Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value):

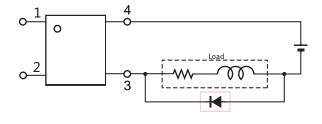
Characteristic	Symbol	Min	Тур.	Max	Unit
Forward current	١ _F	5.0	7.0	30	mA

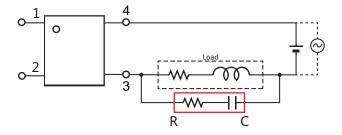
Protection Circuit

Output spike voltages: if an inductive load generates spike voltages which exceed heabsolute maximum rating, the spike voltage shall be limited.

Clamp diode is connected in parallel with the load. Absorb capacity with external diode.

CR Snubber is connected in parallel with the load. Absorb capacity with buffer capacity.





When adding diodes, buffer circuits (C-R), and other protections, they need to be installed near the MOS RELAY to be effective. Adding protection elements may result in a slow reset time, so adjust them according to the actual situation before use.

Note: When developing designs using this product, perform the expected performance of the equipment under the operating conditions recommended by the guidelines in this document. Continuous use under heavy loads (including, but not limited to, the application of high temperatures/current/voltage and significant changes in temperature, etc.) may result in deterioration of the reliability of this product.



单击下面可查看定价,库存,交付和生命周期等信息

>>SUPSiC(国晶微)