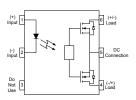
SUPSIC®

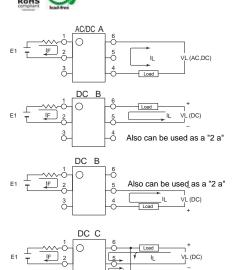
Parameter	Symbol	Rating	Units	
Load Voltage	V∟	60	V	
Load Current	lL .	2.5	Α	
On-Resistance	Ron	0.1	Ω	
I/O Breakdown Voltage	V/ıo	5000	Vrms	



DIP-6



- 1. LED Anode
- 2. LED Cathode
- 4. Drain (MOS FET)
- 5. Source (MOS FET)
- 6. Drain (MOS FET)



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

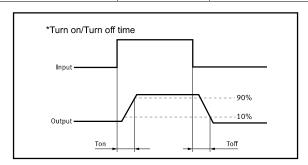
Applications

- 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

Category -	Catagoni	Output Rating		Doolsono	Part No.	Doolsing Overtity	
	Load Voltage Load Current		Package	Part No.	Packing Quantity		
	VC /DC	60V	0.54	DIP-6	GAQV252G2E	50pcs /tube	
	60 V	2.5A	SMD-6	GAQV252G2EH	1000pcs /reel		





Absolute Maximum Ratings (Ta = 25°C)

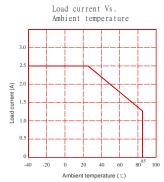
Item		Symbol	Value	Units	Note
	Continuous LED Current	ĪF	50	mA	
Input	Peak LED Current	I FP	1000	mA	f=100Hz, duty=1%
·	LED Reverse Voltage	VR	5	V	
	Input Power Dissipation	P _{In}	75	mW	
	Load Voltage	VL	60	V(AC peak or DC)	
	Load Current	l.	2.5	Α	
Output	Peak Load Current	Peak	4.0	Α	100ms(1 pulse)
	Output Power Dissipation	Pout	450	mW	
Total Power	Dissipation	Рт	500	mW	
I/O Breakdo	wn Voltage	V _{I/O}	5000	Vrms	RH=60%, 1min
Operating Temperature		Торг	-40 to 85	°C	
Storage Temperature		T _{stg}	-40 to 100	°C	
Pin Soldering Temperature		Tsol	260	°C	10 sec max.

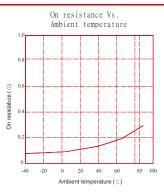
Electrical Characteristics (Ta = 25°C)

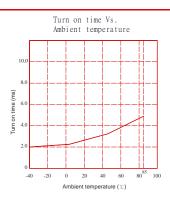
Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions	
	LED Forward Voltage	VF		1.3	1.5	٧	I⊧=10mA	
	Operation LED Current	Fon		0.5	2.0	mA		
Input	Recovery LED Current	Foff		0.35	0.5	mA		
R	Recovery LED Voltage	V _{Foff}	0.7			٧		
Output	On-Resistance	Ron		0.1	0.2	Ω	I⊧=5mA,I∟=Max Time to flow is within 1 sec.	
	Off-State Leakage Current	Leak	0.01	0.02	0.1	uA	V∟=Rating	
	Output Capacitance	Cout		165		pF	V∟=0, f=1MHz	
Transmis	Turn-On Time	Ton		2.0	5.0	ms	I⊧=5mA, I∟=Max	
sion	Turn-Off Time	Toff		0.1	0.3	ms		
O I - d	I/O Isolation Resistance	R _I /o	10 ¹⁰			Ω	DC500V	
Coupled	I/O Capacitance	C _{I/O}		0.8	1.5	pF	f=1MHz	

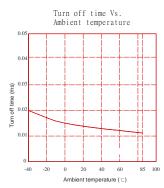
Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value): IF ≥5mA and ≤30mA

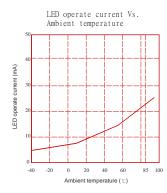
Engineering Data

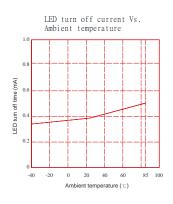


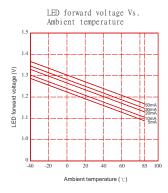


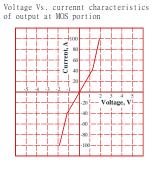


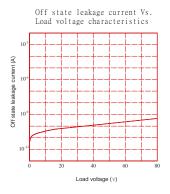


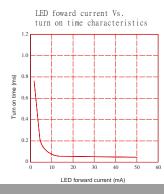


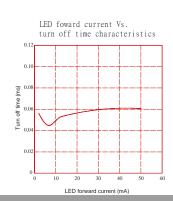


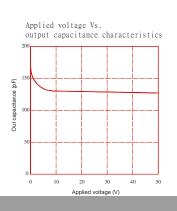










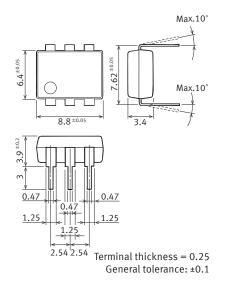


Dimensions and DIP-6 Package

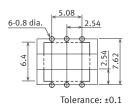
Unit: mm

Marking GAOV PART NO. YY=YEAR WW=WEEK XXXXX

Through hole terminal type



PC board pattern (Bottom view)



DIP Tape dimensions Unit: mm

Devices are packaged in a tube so that pin No. 1 is on the stopper B side. Observe correct orientation when mounting them on PC boards.



Dimensions and SMD-6 Package Unit: mm

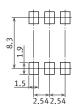
Marking PART NO. GAOV 252G2 XXXXXX WW=WEEK

Surface mount terminal type Max.10° Max.10° 8.820.05 3.4 1.25 1.25 1.25 2.54.2.54

Terminal thickness = 0.25 General tolerance: ±0.1

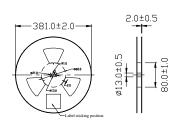
Recommended mounting pad

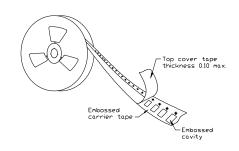
(Top view)

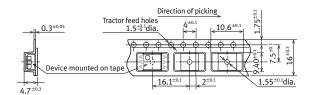


Tolerance: ±0.1

Tape dimensions (tape reel)



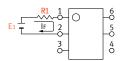


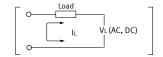




Using Methods

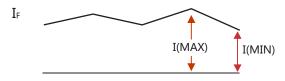
Examples of resistance value to control LED forward current (IF=5mA)





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):

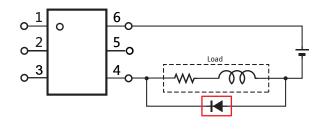
Characteristic	Symbol	Min	Тур.	Max	Unit
Forward current	l _F	5.0	7.0	30	mA

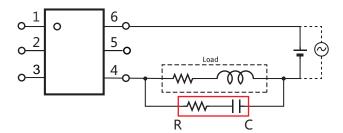
Protection Circuit

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)