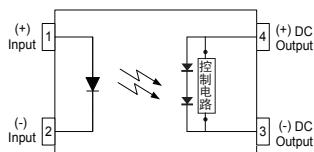
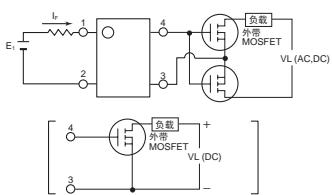


Parameter	Symbol	Rating	Units
Short circuit current	$I_{sc}$	8	uA
Drop-out voltage	$V_{oc}$	12	V
Turn-On Time	$T_{on}$	0.23	ms
I/O Breakdown Voltage	$V_{io}$	2500	Vrms



(Unit: mm)



SOP-4

1. LED Anode
2. LED Cathode
3. Cathode
4. Anode

**Function****1. High-speed switching**

Since release time is 0.1 ms, the MOSFET or other load can be turned off quickly in urgent situations.

**2. Space saving**

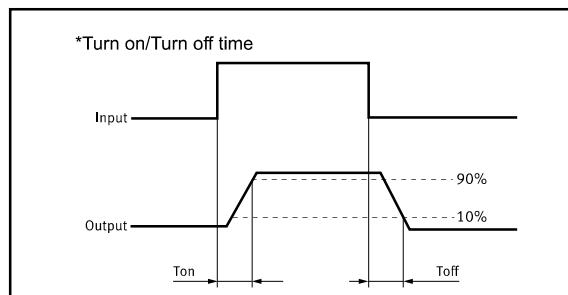
With a built-in control circuit, an external resistor is not needed. This contributes to making substrates more compact.

**Applications****MOSFET driver**

Power supply (Vcc) for electronic circuits

**TPYES**

Category	Output Rating		Package	Part No.	Packing Quantity
	Drop-out voltage (Typ.)	Short circuit current (Typ.)			
Driver	12V	8uA	SOP-4	GAQ1123S	2000pcs /reel



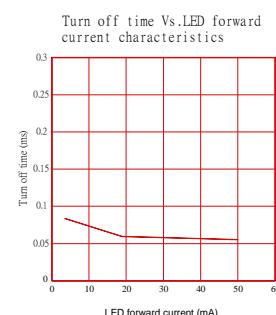
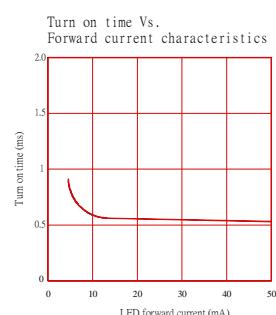
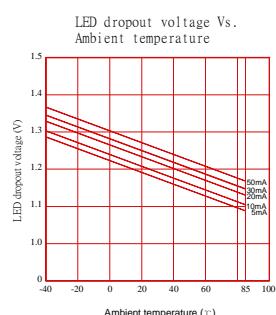
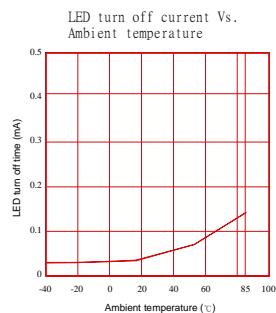
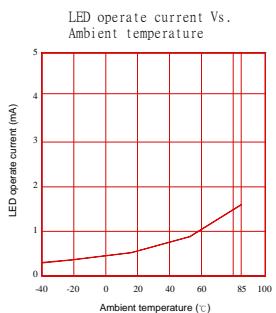
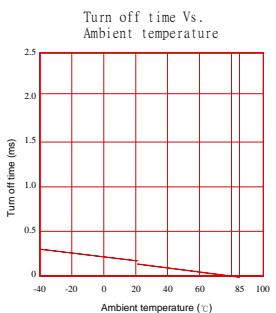
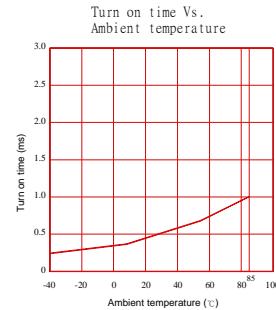
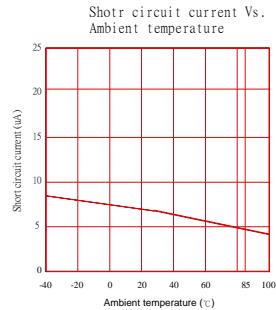
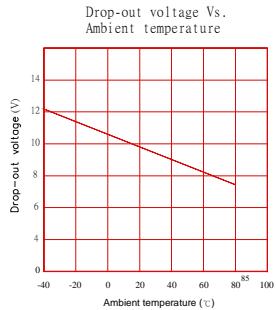
**Absolute Maximum Ratings (Ta = 25°C)**

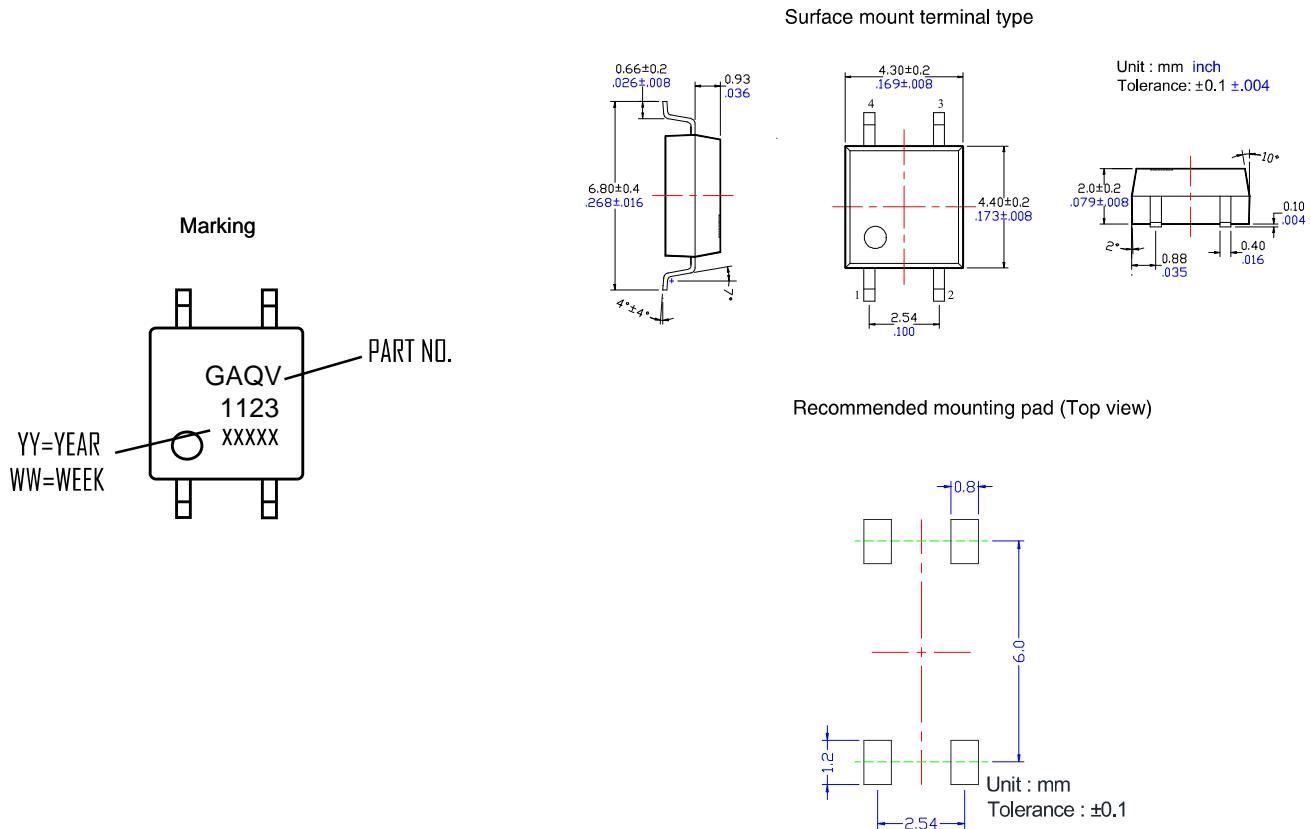
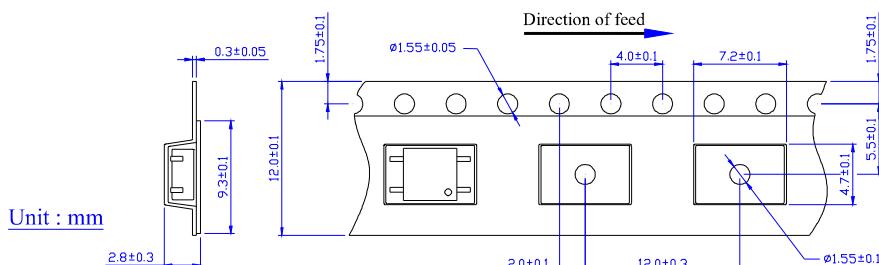
Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I <sub>F</sub>	50	mA	
	Peak LED Current	I <sub>FP</sub>	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	V <sub>R</sub>	5	V	
	Input Power Dissipation	P <sub>In</sub>	75	mW	
I/O Breakdown Voltage		V <sub>I/O</sub>	2500	V <sub>rm</sub>	RH=60%, 1min
Operating Temperature		T <sub>Opr</sub>	-40 to +85	°C	
Storage Temperature		T <sub>Stg</sub>	-40 to +100	°C	

**Electrical Characteristics (Ta = 25°C)**

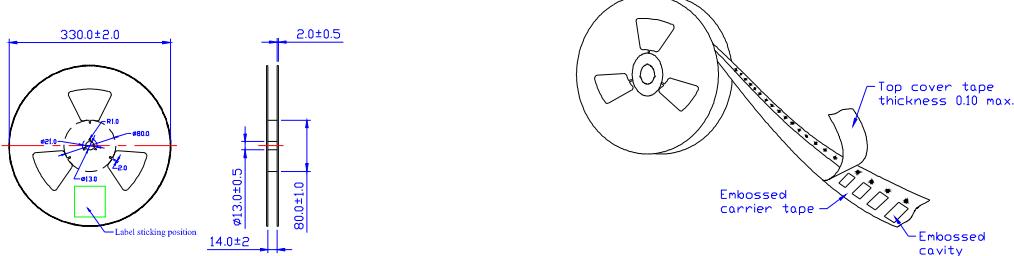
Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V <sub>F</sub>		1.2	1.4	V	I <sub>F</sub> =10mA
	Operation LED Current	I <sub>F On</sub>		0.5	3.0	mA	V <sub>oc</sub> =5V
	Recovery LED Current	I <sub>F Off</sub>		0.35	0.5	mA	V <sub>oc</sub> =1V
Output	Drop-out Voltage	V <sub>oc</sub>	10	12		V	I <sub>F</sub> =10mA
	Short Circuit Current	I <sub>sc</sub>	1	8		uA	I <sub>F</sub> =10mA
Transmission	Turn-On Time	T <sub>On</sub>		0.23		ms	I <sub>F</sub> =10mA
	Turn-Off Time	T <sub>off</sub>		0.03		ms	C <sub>L</sub> =1000pF
Coupled	I/O Isolation Resistance	R <sub>I/O</sub>	10 <sup>10</sup>			Ω	DC500V
	I/O Capacitance	C <sub>I/O</sub>		0.8	1.5	pF	f=1MHz

Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value): I<sub>F</sub> ≥10mA and ≤30mA

**Engineering Data**

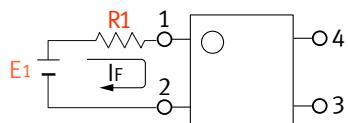
**Dimensions and Package****Tape dimensions**

Dimensions of tape reel



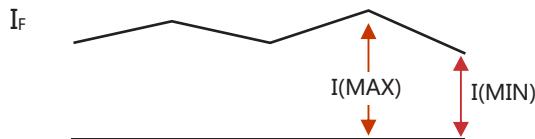
**Using Methods**

Examples of resistance value to control LED forward current ( $I_F=20\text{mA}$ )



E1	R1 (Approx)
3.3V	100 $\Omega$
5.0V	180 $\Omega$
12V	500 $\Omega$
24V	1.1K $\Omega$

LED forward current must be more than 10mA , at  $I(\text{MIN})$  ,and less than 30mA , at  $I(\text{MAX})$ .

**Recommended Operating Conditions**

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

Characteristic	Symbol	Min	Typ.	Max	Unit
Forward current	$I_F$	10	20	30	mA

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUPSiC\(国晶微\)](#)