



Features

- Low driver power requirements (TTL/CMOS Compatible)
- No moving parts
- High reliability
- Arc-Free with no snubbing circuits
- 3750Vrms Input/Output isolation

Applications

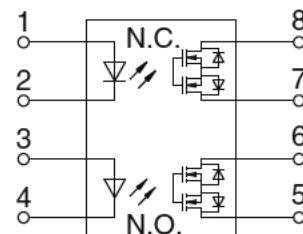
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine



SMD8

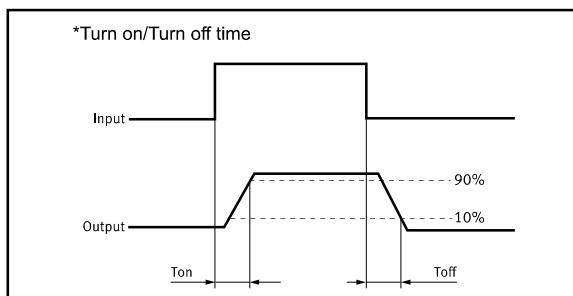


DIP8

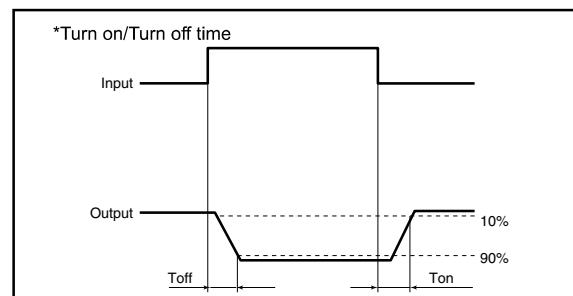


1,3.LED Anode
2,4.LED Cathode
5,6.Drain (MOSFET)1a
7,8.Drain (MOSFET)1b

Normally-On



Normally-Off



TYPES

Category	Output rating		Package	Part No.	Packing quantity
	Load voltage	Load current			
AC/DC	60V	0.4A	DIP8	GAQW612E	50pcs/tube
			SMD8	GAQW612EH	1000pcs/1reel

Absolute Maximum Ratings (Ambient Temperature: 25 °C)

Item		Symbol	Value	Units	Note
Input	Continuous LED Current	IF	50	mA	
	Peak LED Current	IFP	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	VR	5	V	
	Input Power Dissipation	PIn	75	mW	
Output	Load Voltage	VL	60	V(AC peak or DC)	
	Load Current	IL	400	mA	
	Peak Load Current	IPeak	700	mA	1ms(1 pulse)
	Output Power Dissipation	Pout	450	mW	
Total Power Dissipation		PT	500	mW	
I/O Breakdown Voltage		VI/O	3750	Vrms	RH=60%, 1min
Operating Temperature		Topr	-40 to +85	-40 to +85	
Storage Temperature		TStg	-40 to +100	-40 to +100	
Pin Soldering Temperature		TSol	260	260	10 sec max.

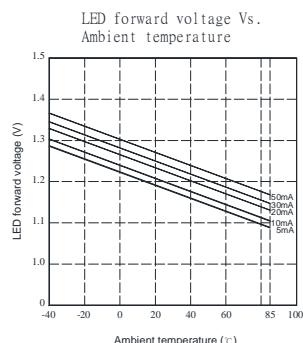
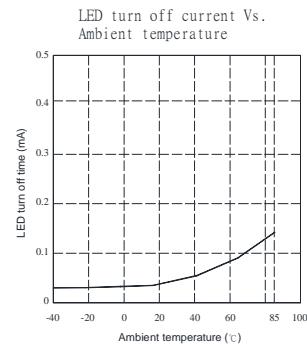
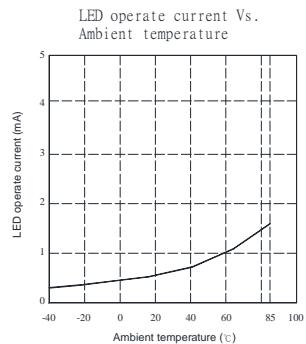
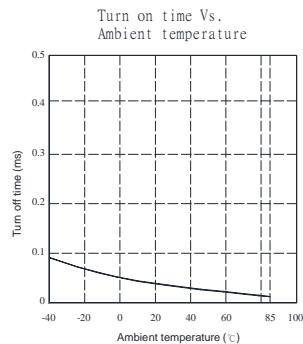
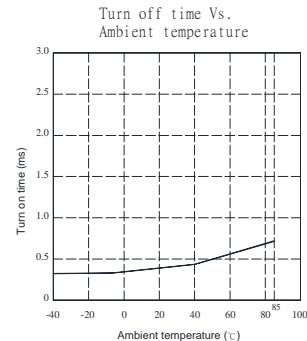
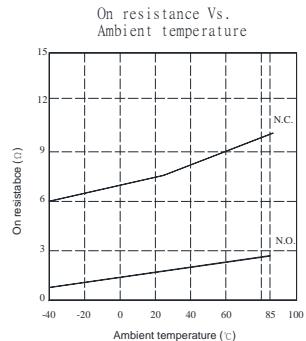
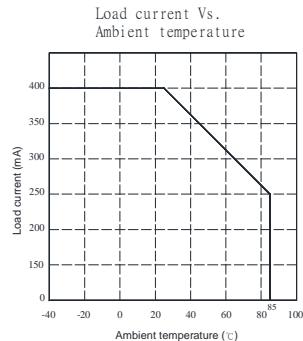
Electrical Specifications (Ambient Temperature: 25 °C)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions	
Input	LED Forward Voltage	VF		1.2	1.4	V	IF=10mA	
	Operation LED Current	IF On		0.5	5.0	mA		
	Recovery LED Current	IF Off		0.35	0.5	mA		
	Recovery LED Voltage	VF Off	0.5			V		
Output	On-Resistance	ROn		1(N.O.)	1.4(N.O.)	Ω	IF=5mA (N.O.) IF=0mA (N.C) IL=100mA Time to flow is within 1 sec.	
				6(N.C.)	10(N.C.)			
	Off-State Leakage Current	ILeak		1	10	uA	IF=0mA (N.O.) IF=5mA (N.C) VL= Rating	
Transmission	Output Capacitance	COut		150		pF	IF=5mA, VL=0, f=1MHz	
	Turn-On Time	TON		0.23(N.O.)	0.5(N.O.)	ms	IF=5mA, IL=50mA	
				0.2(N.C.)	1.0(N.C.)			
	Turn-Off Time	TOFF		0.03(N.O.)	0.2(N.O.)	ms		
				0.5(N.C.)	3.0(N.C.)			
Coupled	I/O Isolation Resistance	RI/O	10^{10}			Ω	DC500V	
	I/O Capacitance	CI/O		0.8		pF	f=1MHz	

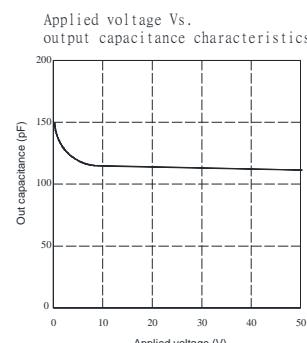
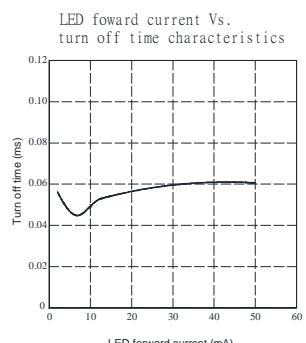
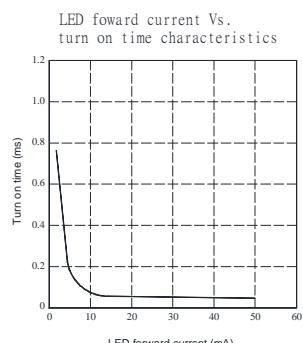
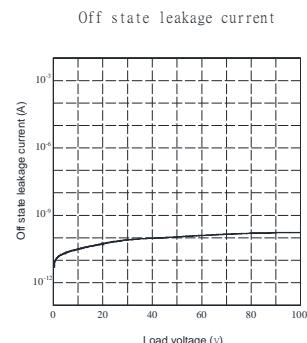
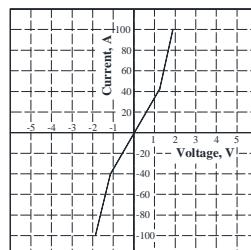
Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value): IF \geq 5mA and \leq 30mA.

Examples of resistance value to control LED forward current (IF=5mA, INPUT VOLTAGE="E", RESISTORS="R")
 "E"=3.3V, "R"=330Ω; "E"=5V, "R"=640Ω; "E"=12V, "R"=1.9KΩ; "E"=15V, "R"=2.5KΩ; "E"=24V, "R"=4.1KΩ;

Reference Data



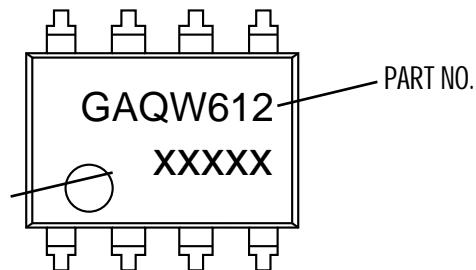
Voltage Vs. current characteristics
of output at MOS portion



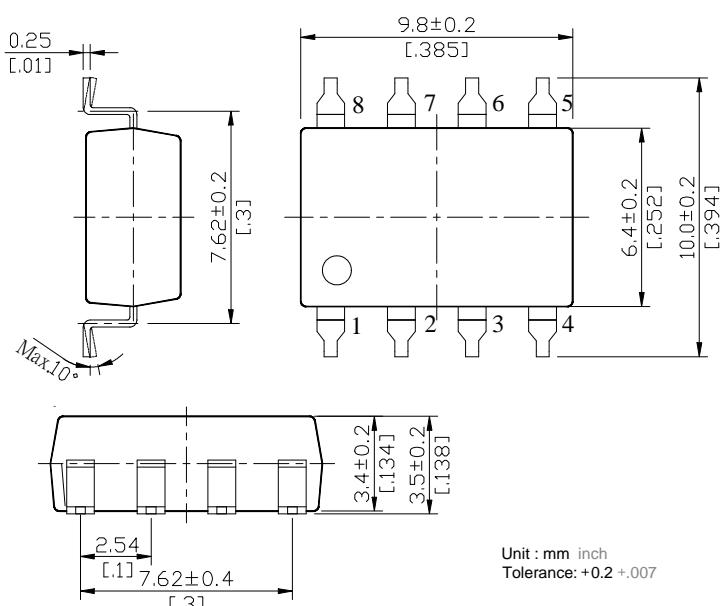
8-SMD

Dimensions

mm inch

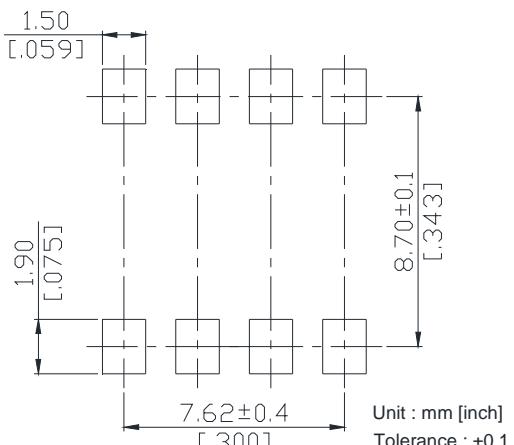


Surface mount terminal type



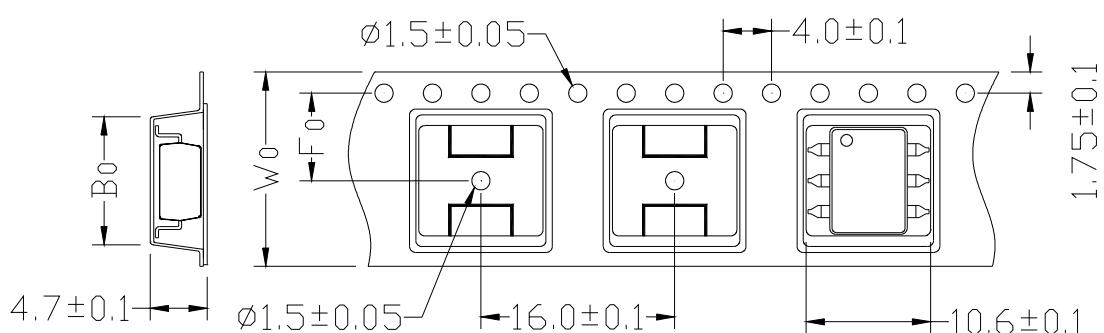
PC board pattern

(Top view)

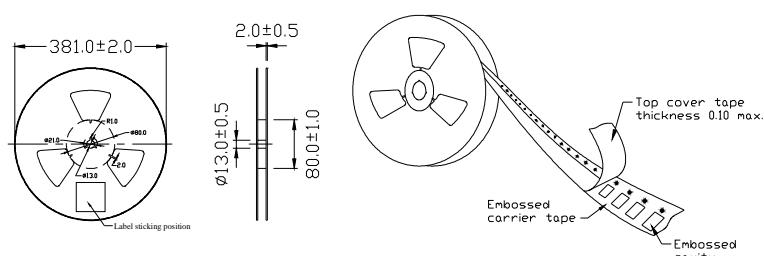


Tape dimensions

Direction of feed

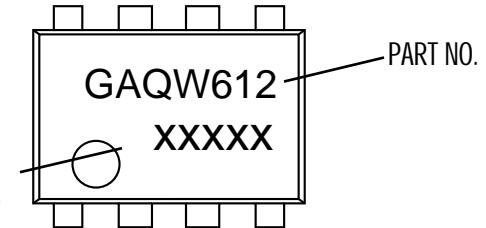


Dimensions of tape reel

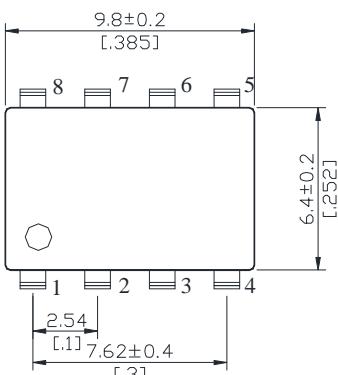
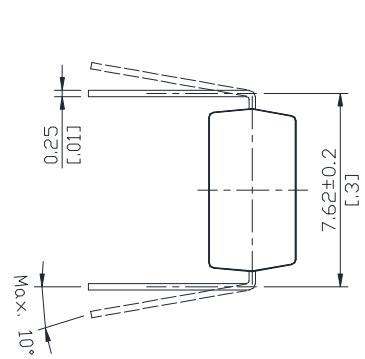


8-DIP

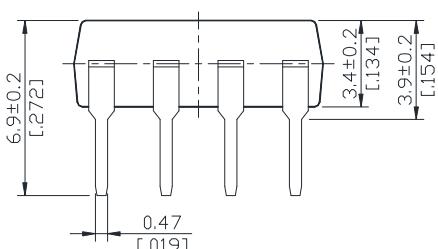
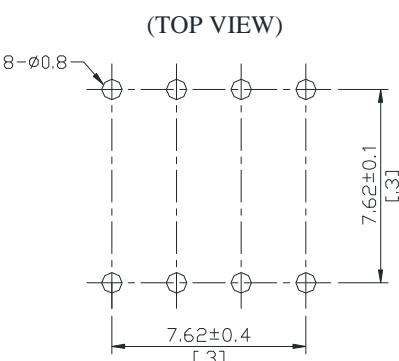
Dimensions



Through hole terminal type



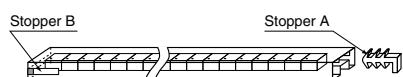
PC board pattern



Unit : mm inch
Tolerance: +0.2 -.007

DIP type

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.



单击下面可查看定价，库存，交付和生命周期等信息

[>>SUPSiC\(国晶微\)](#)