

**Features**

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

Applications

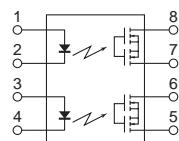
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine



SMD-8



DIP-8



1,3. LED Anode
 2,4. LED Cathode
 5,6. Drain (MOS FET)
 7,8. Drain (MOS FET)

(Unit: mm)

TYPES

Category	Output rating				Packing quantity
	Load voltage	Load current	Part No.	Package	
AC/DC	40V	2500mA	GAQW211G2E	DIP-8	25pcs/Tube
			GAQW211G2EH	SMD-8	1000pcs/1reel

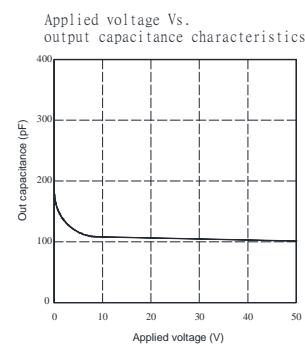
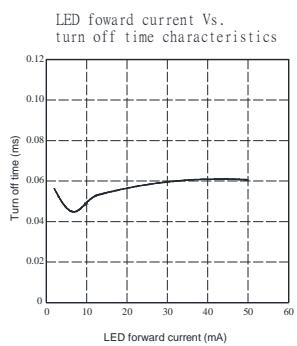
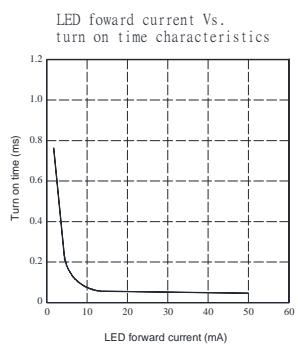
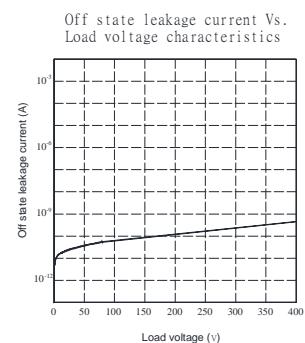
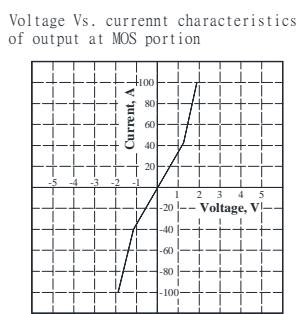
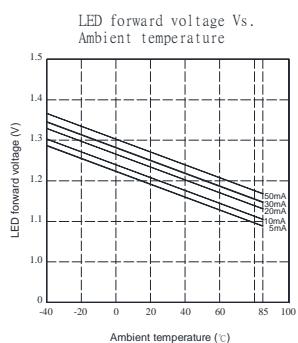
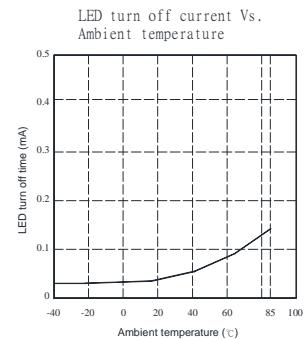
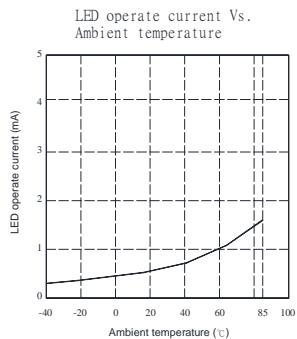
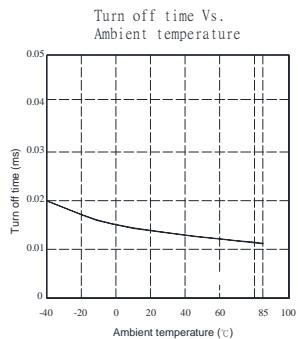
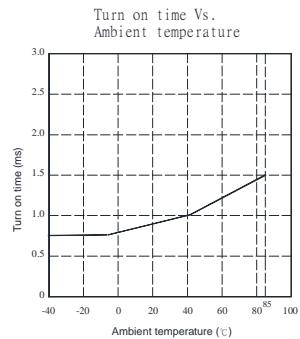
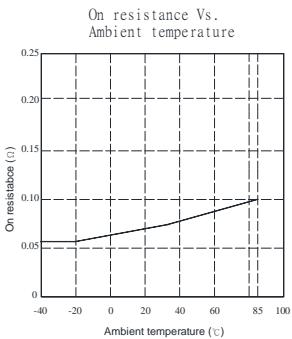
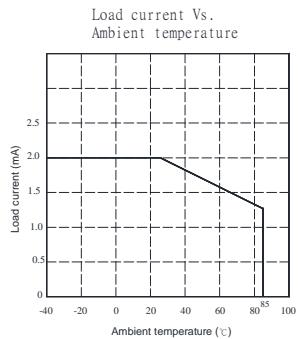
Absolute Maximum Ratings (Ambient Temperature: 25 °C)

Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I _F	50	mA	
	Peak LED Current	I _{FP}	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	V _R	5	V	
	Input Power Dissipation	P _{In}	75	mW	
Output	Load Voltage	V _L	40	V(AC peak or DC)	
	Load Current	I _L	2.5	A	
	Peak Load Current	I _{Peak}	2.5	A	100ms(1 pulse)
	Output Power Dissipation	P _{out}	1.8	W	
Total Power Dissipation		P _T	2	W	
I/O Breakdown Voltage		V _{I/O}	3750	Vrms	RH=60%, 1min
Operating Temperature		T _{Opr}	-40 to +85	°C	
Storage Temperature		T _{Stg}	-40 to +100	°C	
Pin Soldering Temperature		T _{Sol}	260	°C	10 sec max.

Electrical Specifications (Ambient Temperature: 25 °C)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V _F		1.2	1.4	V	I _F =10mA
	Operation LED Current	I _{F On}		0.5	3.0	mA	
	Recovery LED Current	I _{F off}		0.35	0.5	mA	
	Recovery LED Voltage	V _{F off}	0.5			V	
Output	On-Resistance	R _{On}		0.06	0.1	Ω	I _F =5mA, I _L =100mA, Time to flow is within 1 sec.
	Off-State Leakage Current	I _{Leak}			1	uA	V _L =Rating
	Output Capacitance	C _{out}		190		pF	V _L =0, f=1MHz
Transmission	Turn-On Time	T _{On}		0.8	1.5	ms	I _F =5mA, I _L =100mA,
	Turn-Off Time	T _{off}		0.02	0.5	ms	
Coupled	I/O Isolation Resistance	R _{I/O}	10 ¹⁰			Ω	DC500V
	I/O Capacitance	C _{I/O}		0.8	1.5	pF	f=1MHz

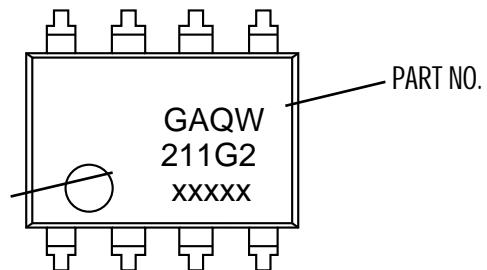
Reference Data



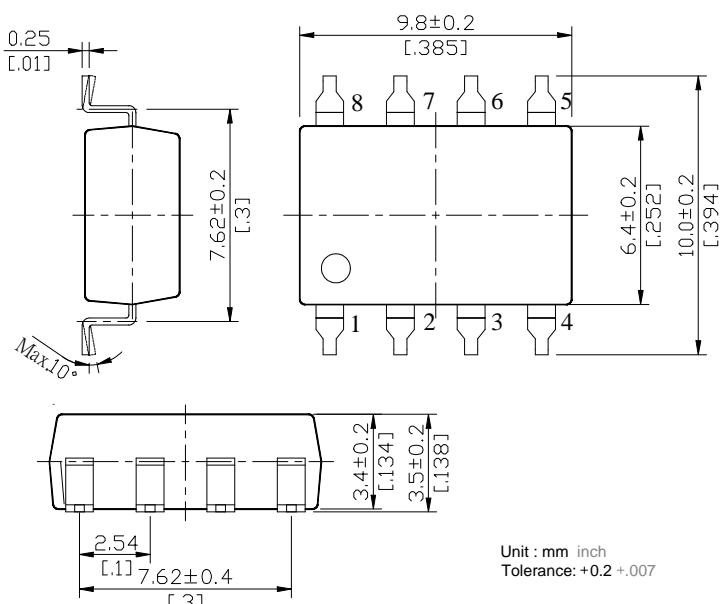
8-SMD

Dimensions

mm inch

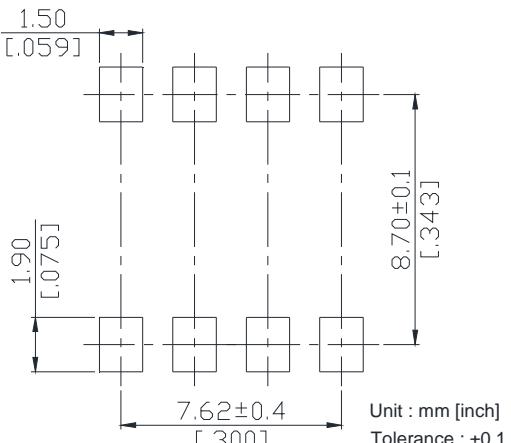


Surface mount terminal type



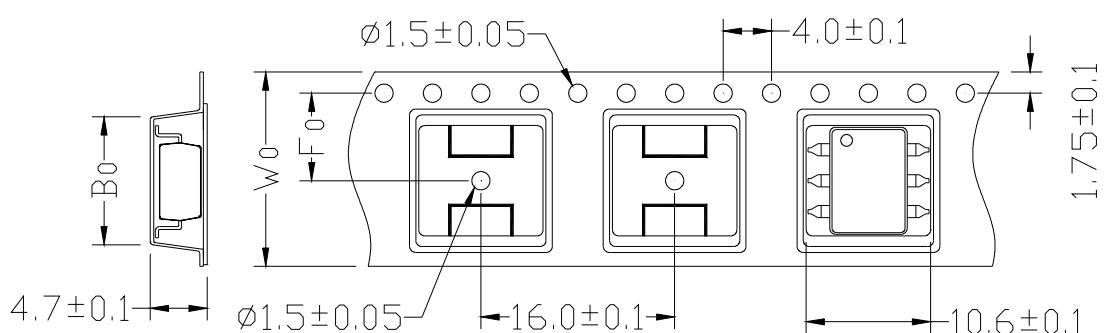
PC board pattern

(Top view)

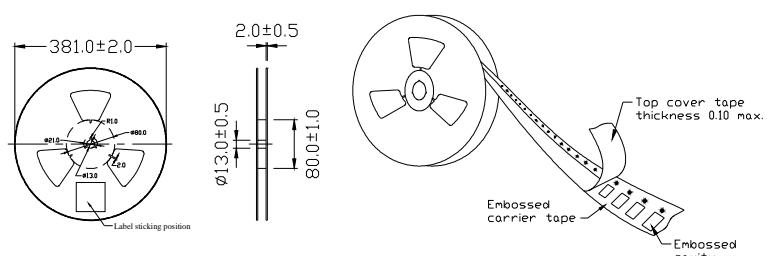


Tape dimensions

Direction of feed →



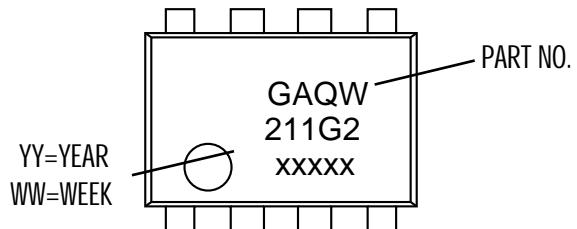
Dimensions of tape reel



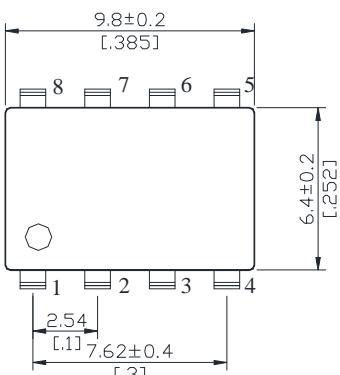
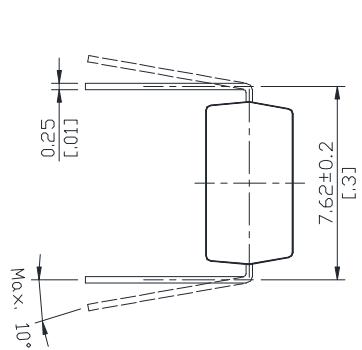
8-DIP

Dimensions

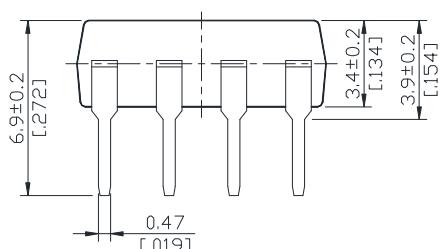
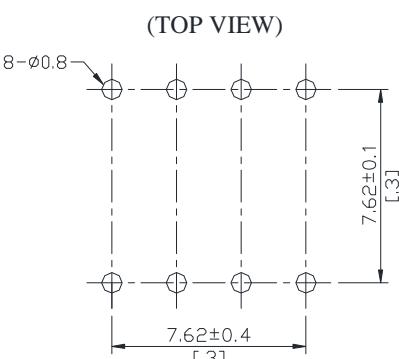
mm inch



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.

