



Features

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

Applications

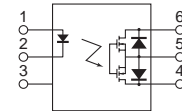
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine Arc-Free with no snubbing circuits



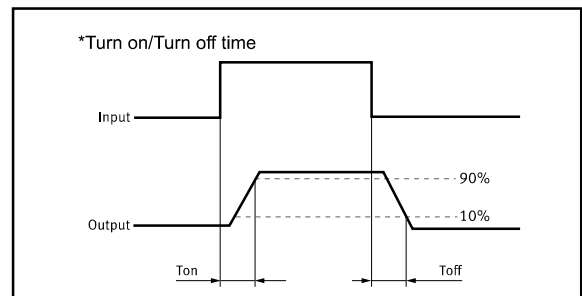
SMD-6



DIP-6



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



TYPES

Category	Output rating		Package	Part No.	Packing quantity
	Load voltage	Load current			
AC/DC	60V	500mA	DIP6	GAQV212E	50pcs/tube
			SMD6	GAQV212EH	1000pcs/reel

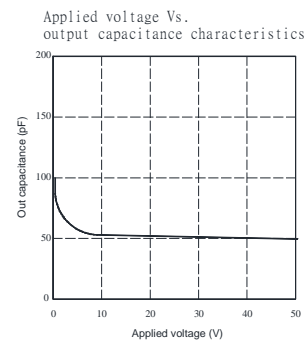
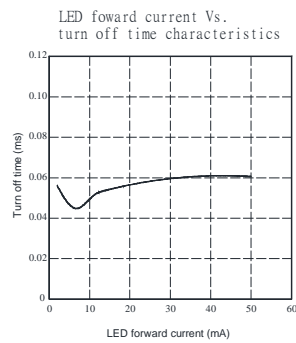
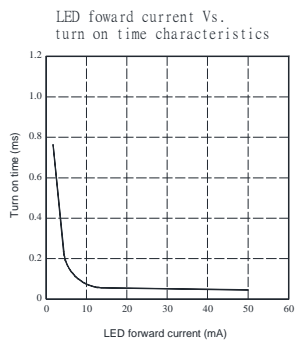
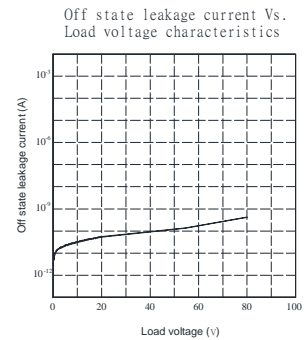
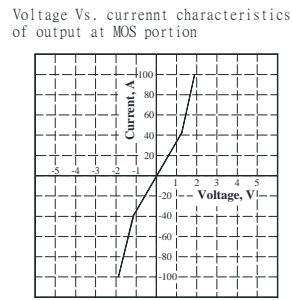
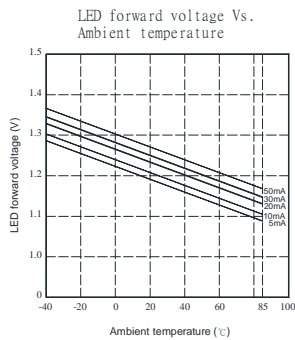
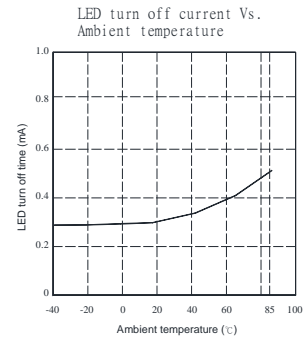
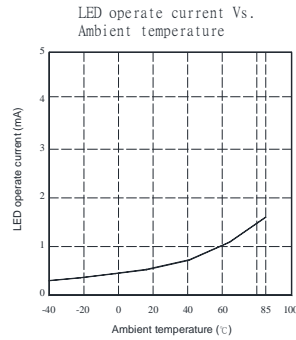
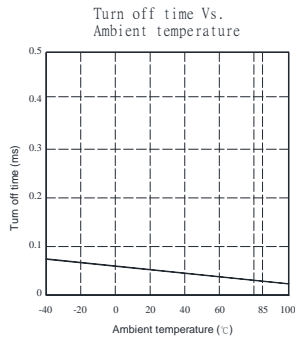
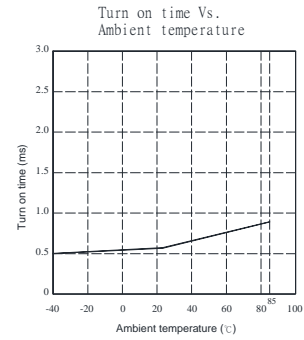
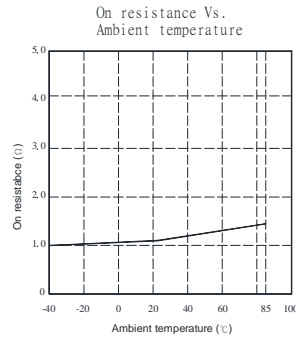
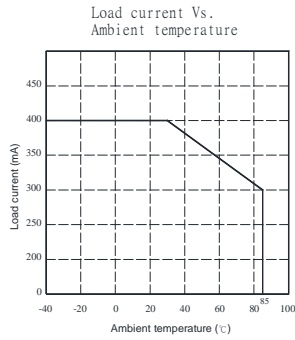
Absolute Maximum Ratings (Ambient Temperature: 25 °C)

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	60	V(AC peak or DC)	
	Load Current	I _L	500	mA	
	Peak Load Current	I _{Peak}	1.0	A	100ms(1 pulse)
	Output Power Dissipation	P _{out}	450	mW	
Total Power Dissipation		P _T	500	mW	
I/O Breakdown Voltage		V _{I/O}	3750	V _{rms}	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	5.0	mA	
	Recovery LED Current	I _{F off}		0.35	0.5	mA	
	Recovery LED Voltage	V _{F off}	0.7			V	
Output	On-Resistance	R _{on}		1.0	1.4	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}		115		pF	V _L =0, f=1MHz
Transmis sion	Turn-On Time	T _{on}		0.5	0.8	ms	I _F =5mA, I _L =100mA,
	Turn-Off Time	T _{off}		0.35	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



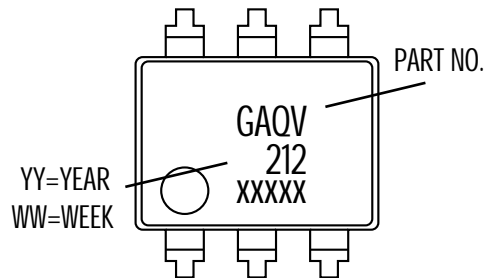
Dimensions

6-SMD

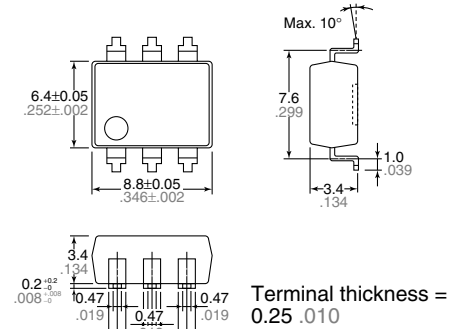


Dimensions

mm inch

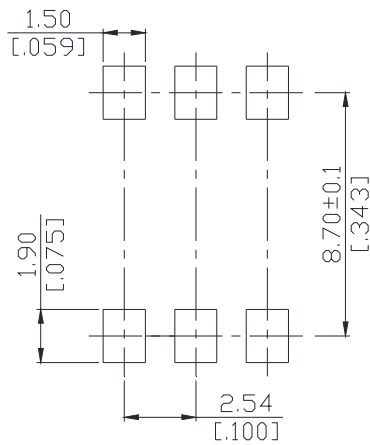


Surface mount terminal type



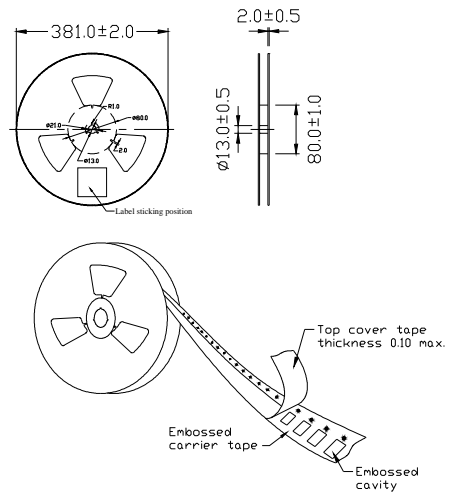
General tolerance: ±0.1 ±.004

PC board pattern (Top view)

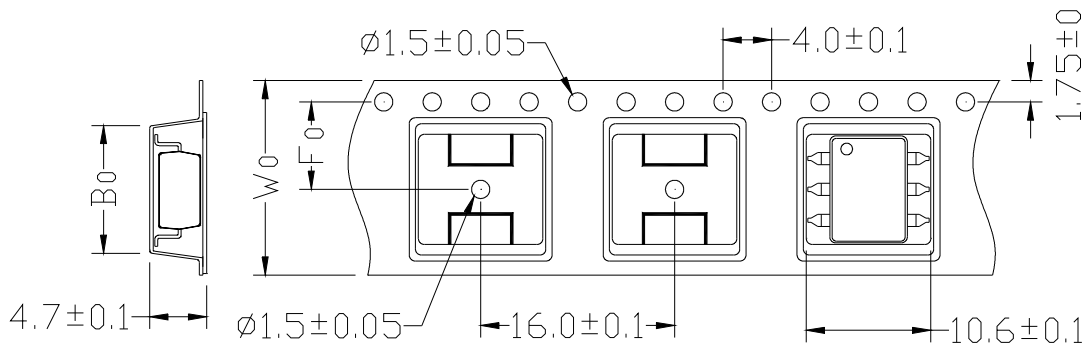


Unit : mm [inch]
Tolerance : ±0.1

Tape dimensions



Dimensions of tape reel



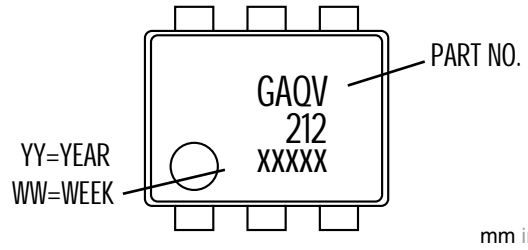
Unit: mm

TYPE	B0±0.1	F0±0.1	W0±0.1	13"REEL/PCS
6P	9.4	7.5	16	1000

Dimensions 6-DIP

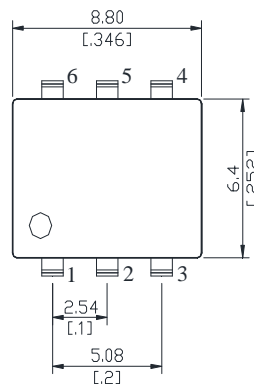
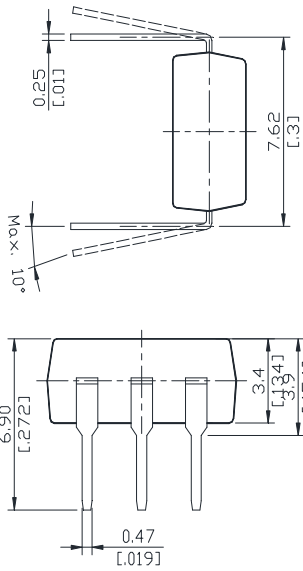


Dimensions



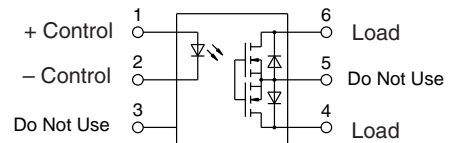
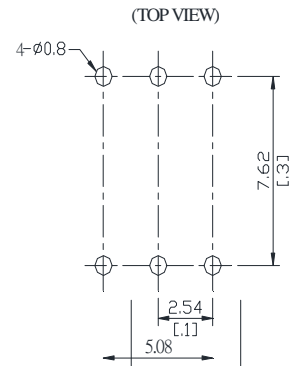
mm inch

Through hole terminal type



Unit : mm inch
Tolerance: +0.2 +.007

PC board patter



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.

