



Features

- Low driver power requirements (TTL/CMOS Compatible)
- No moving parts
- High reliability
- Arc-Free with no snubbing circuits
- 5000Vrms Input/Output isolation

Applications

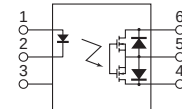
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine Arc-Free with no snubbing circuits



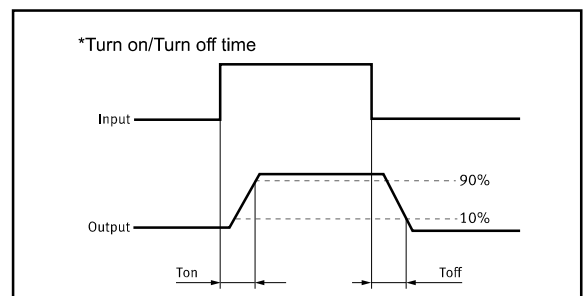
SMD-6



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	100V	1100mA	DIP6	GAQV215G1E	50pcs/tube
			SMD6	GAQV215G1EH	1000pcs/reel

Absolute Maximum Ratings (Ambient Temperature: 25 °C)

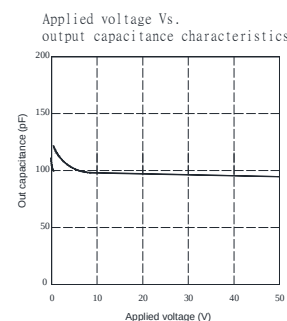
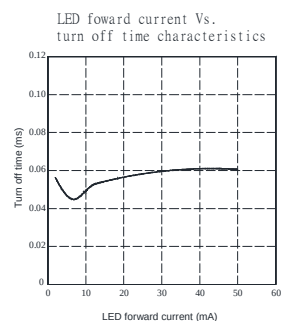
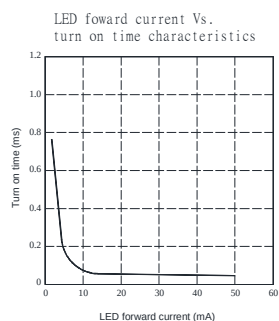
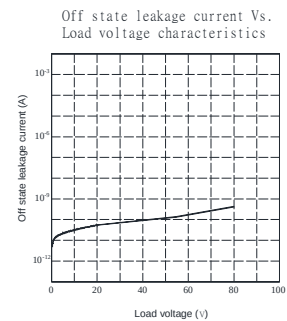
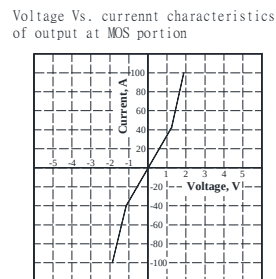
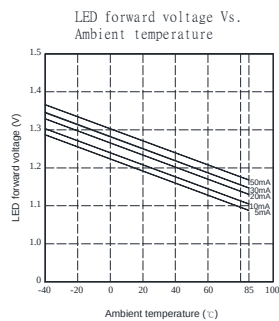
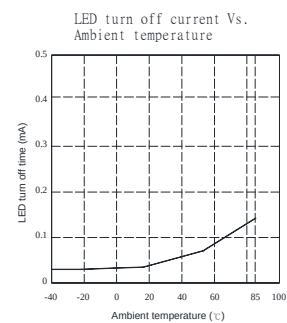
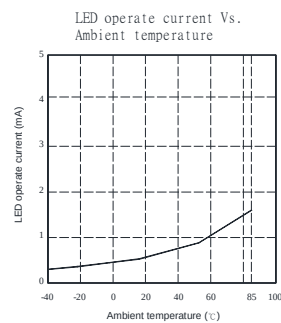
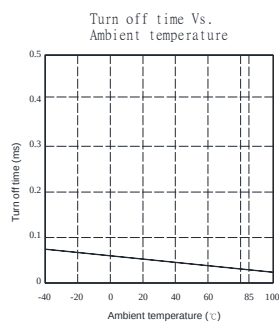
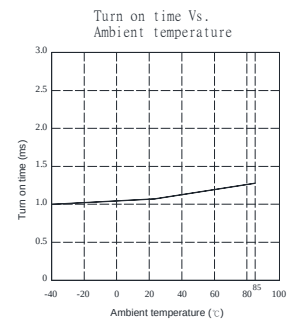
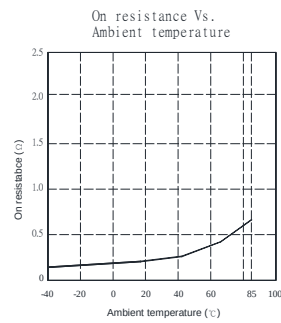
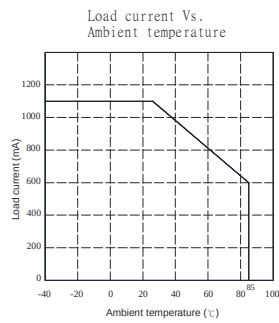
Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I _F	50	mA	
	Peak LED Current	I _{FP}	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	V _R	5	V	
	Input Power Dissipation	P _{In}	75	mW	
Output	Load Voltage	V _L	100	V(AC peak or DC)	
	Load Current	I _L	1100	mA	
	Peak Load Current	I _{Peak}	4.0	A	100ms(1 pulse)
	Output Power Dissipation	P _{out}	380	mW	
Total Power Dissipation		P _T	450	mW	
I/O Breakdown Voltage		V _{I/O}	5000	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	3.0	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}		0.3	0.7	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	5.0	ms	I _F =5mA, I _L =100mA,
	Turn-Off Time	T _{off}		0.35	2.0	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

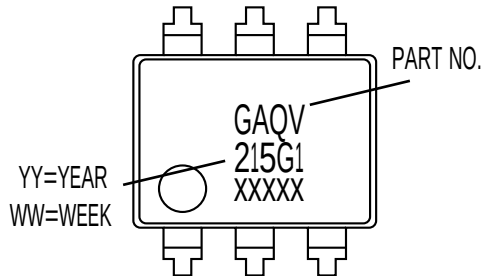
Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value): I_F ≥5mA and ≤30mA.
 Examples of resistance value to control LED forward current (I_F=5mA, INPUT VOLTAGE="E", RESISTORS="R")
 "E"=3.3V, "R"=330Ω; "E"=5V, "R"=640Ω; "E"=12V, "R"=1.9KΩ; "E"=15V, "R"=2.5KΩ; "E"=24V, "R"=4.1KΩ;

Reference Data

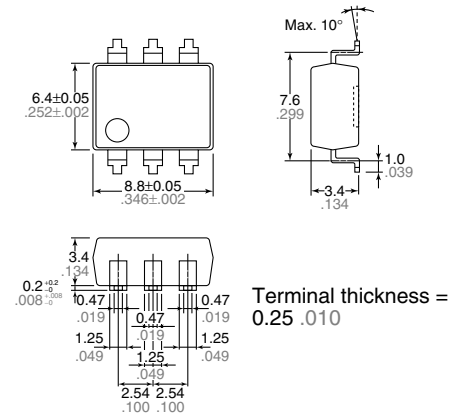


Dimensions

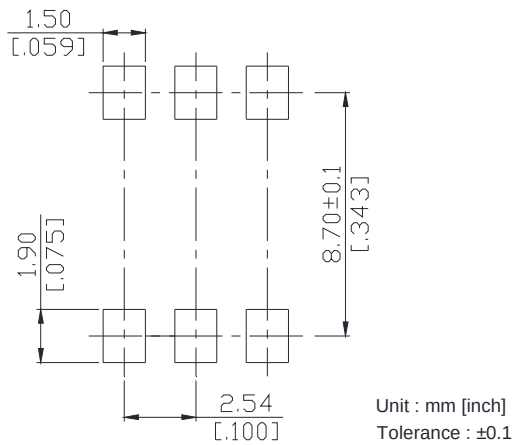
Dimensions



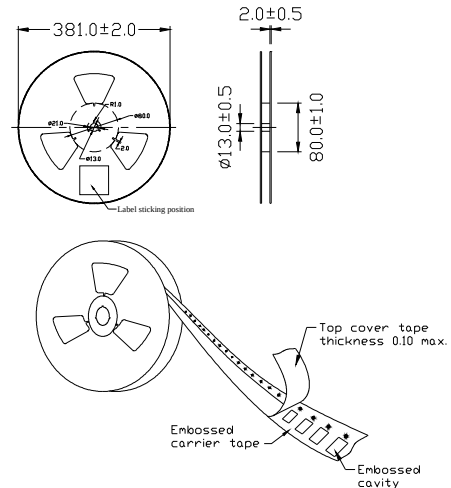
Surface mount terminal type



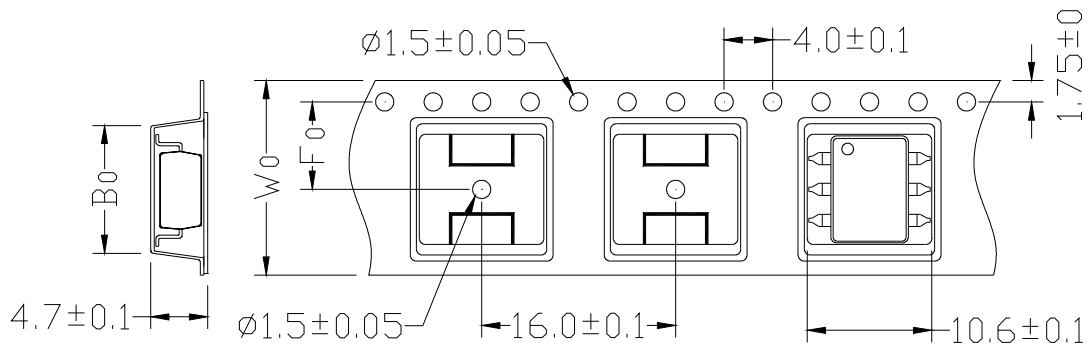
PC board pattern (Top view)



Tape dimensions



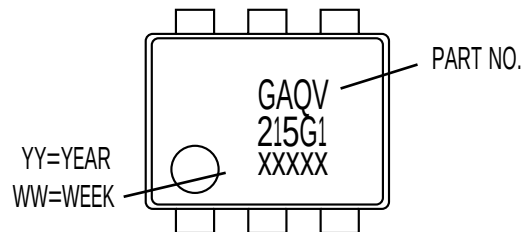
Dimensions of tape reel



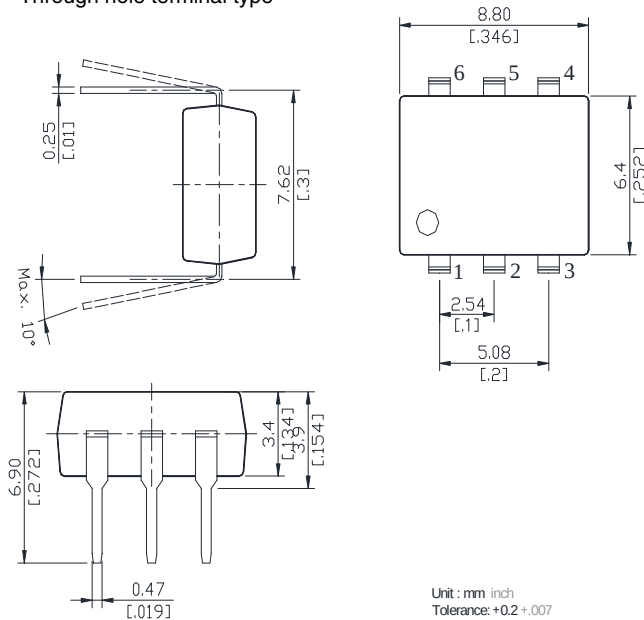
Unit: mm

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

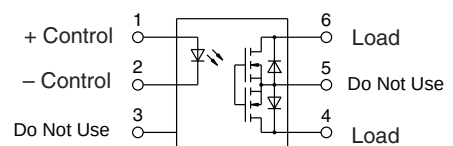
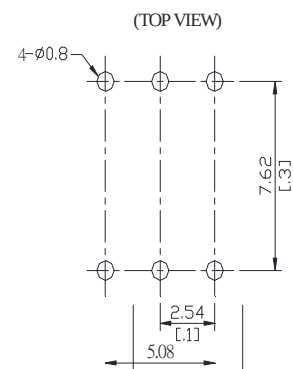
Dimensions



Through hole terminal type



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.

