



### Features

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

### Applications

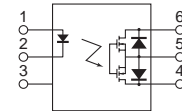
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine Arc-Free with no snubbing circuits



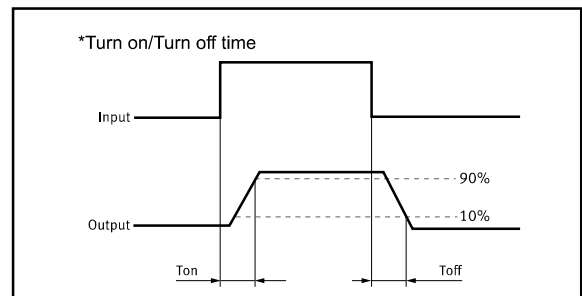
SMD-6



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	3000mA	DIP6	GAQV252G3E	50pcs/tube
			SMD6	GAQV252G3EH	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	$I_{FP}$	500	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	$I_L$	3000	mA	
	Peak Load Current	$I_{Peak}$	6000	mA	1ms(1pulse)
	Output Power Dissipation	$P_{out}$	500	mW	
Total Power Dissipation		$P_T$	550	mW	
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)

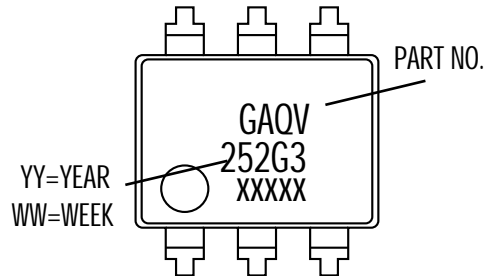
Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	$V_F$		1.3	3.0	V	$I_F=10mA$
	Operation LED Current	$I_{F on}$		1.2	2.0	mA	
	Recovery LED Current	$I_{F off}$		0.3	0.9	mA	
	Recovery LED Voltage	$V_{F off}$	0.7			V	
Output	On-Resistance	$R_{on}$		0.04	0.052	$\Omega$	$I_F=5mA, I_L=100mA$ , Time to flow is within 1 sec.
	Off-State Leakage Current	$I_{Leak}$			1	$\mu A$	$V_L=Rating$
	Output Capacitance	$C_{out}$		500		pF	$V_L=0, f=1MHz$
Transmission	Turn-On Time	$T_{on}$		0.8	5	ms	$I_F=5mA, I_L=100mA$ ,
	Turn-Off Time	$T_{off}$		0.1	1.0	ms	
Coupled	I/O Isolation Resistance	$R_{I/O}$	$10^{10}$			$\Omega$	DC500V
	I/O Capacitance	$C_{I/O}$		0.8	1.3	pF	f=1MHz

## Dimensions

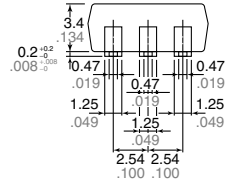
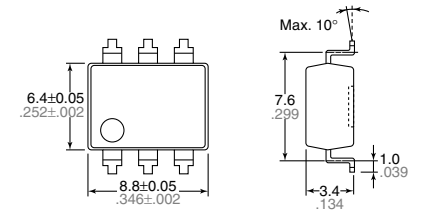
### 6-SMD



Dimensions  
mm inch



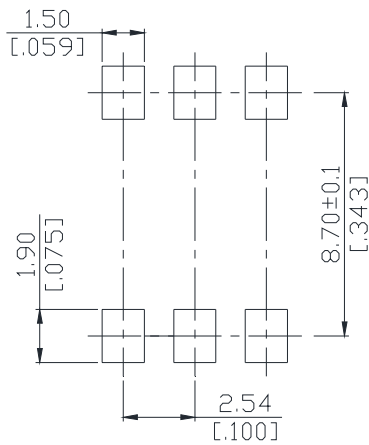
Surface mount terminal type



Terminal thickness = 0.25 .010

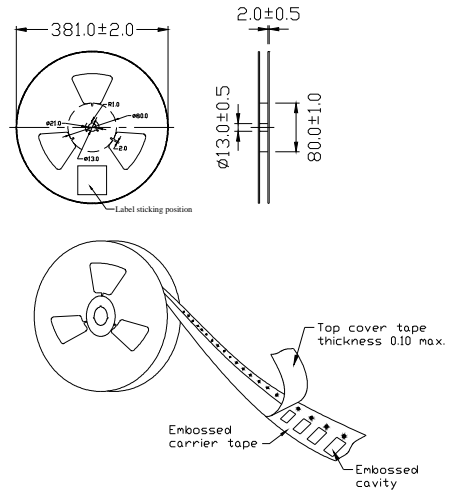
General tolerance: ±0.1 ±.004

PC board pattern (Top view)

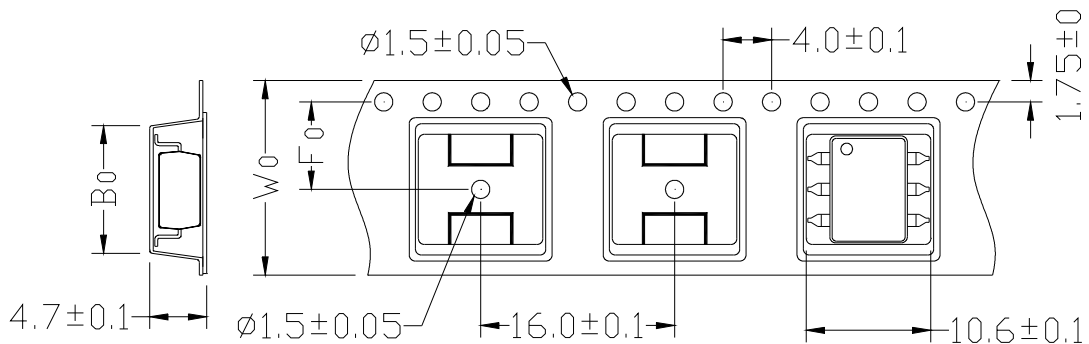


Unit : mm [inch]  
Tolerance : ±0.1

Tape dimensions



Dimensions of tape reel



Unit: mm

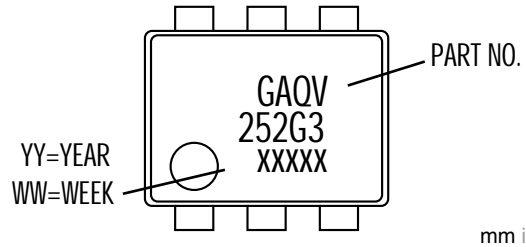
TYPE	B0±0.1	F0±0.1	W0±0.1	13"REEL/PCS
6P	9.4	7.5	16	1000

## Dimensions

### 6-DIP

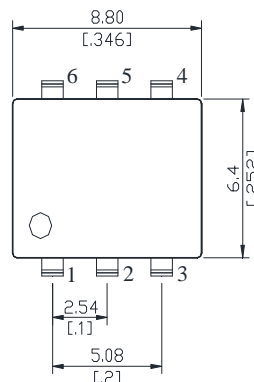
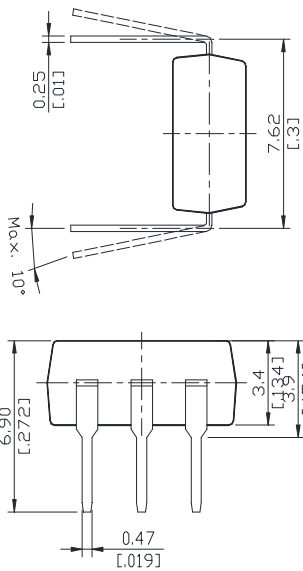


Dimensions



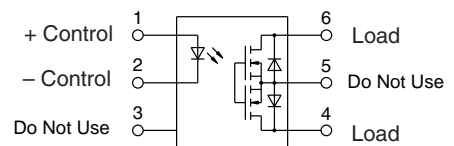
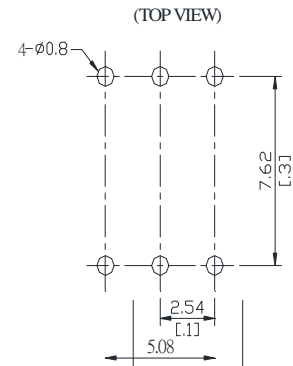
mm inch

Through hole terminal type



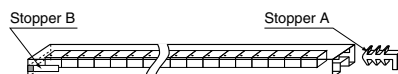
Unit : mm inch  
Tolerance: +0.2 +.007

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.



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