



Features

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

Applications

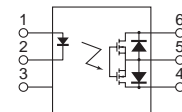
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine Arc-Free with no snubbing circuits



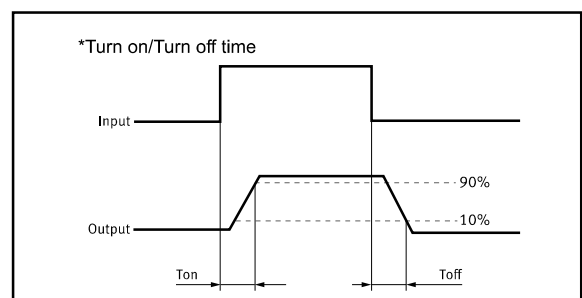
SMD-6



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	2500mA	DIP6	GAQV252G2E	50pcs/tube
			SMD6	GAQV252G2EH	1000pcs/reel

Absolute Maximum Ratings (Ambient Temperature: 25 °C)

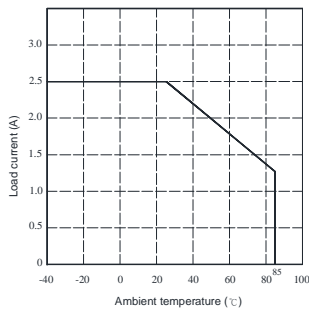
Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I_F	50	mA	
	Peak LED Current	I_{FP}	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	V_R	5	V	
	Input Power Dissipation	P_{in}	75	mW	
Output	Load Voltage	V_L	60	V(AC peak or DC)	
	Load Current	I_L	2500	mA	
	Peak Load Current	I_{Peak}	4.0	A	100ms(1pulse)
	Output Power Dissipation	P_{out}	450	mW	
Total Power Dissipation		P_T	500	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)

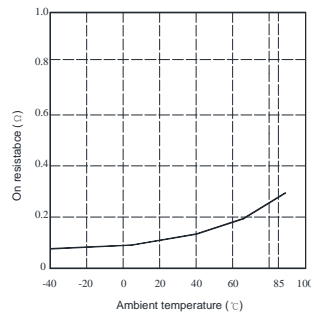
Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V_F		1.3	1.5	V	$I_F=10mA$
	Operation LED Current	$I_{F on}$		0.5	2.0	mA	
	Recovery LED Current	$I_{F off}$		0.35	0.5	mA	
	Recovery LED Voltage	$V_{F off}$	0.7			V	
Output	On-Resistance	R_{on}		0.1	0.2	Ω	$I_F=5mA, I_L=100mA$, Time to flow is within 1 sec.
	Off-State Leakage Current	I_{Leak}			1	μA	$V_L=Rating$
	Output Capacitance	C_{out}		165		pF	$V_L=0, f=1MHz$
Transmis sion	Turn-On Time	T_{on}		2.0	5	ms	$I_F=5mA, I_L=100mA$,
	Turn-Off Time	T_{off}		0.1	0.3	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

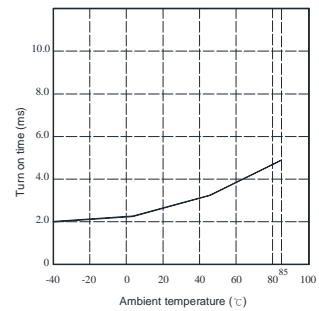
Load current Vs. Ambient temperature



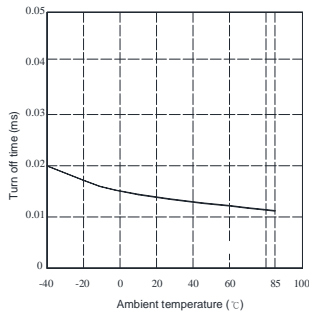
On resistance Vs. Ambient temperature



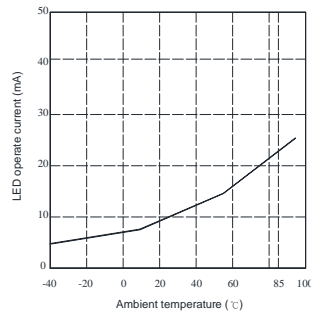
Turn on time Vs. Ambient temperature



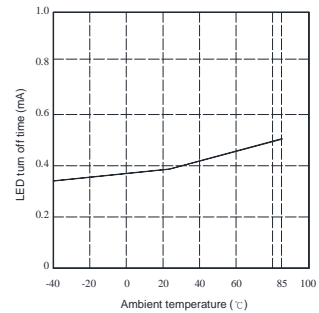
Turn off time Vs. Ambient temperature



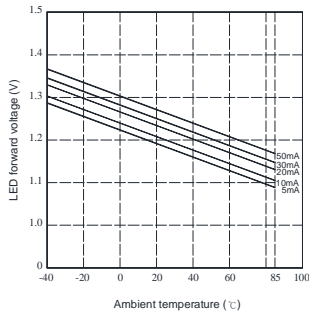
LED operate current Vs. Ambient temperature



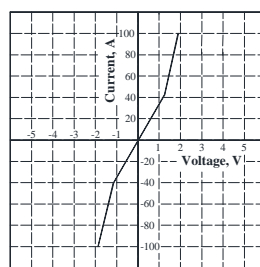
LED turn off current Vs. Ambient temperature



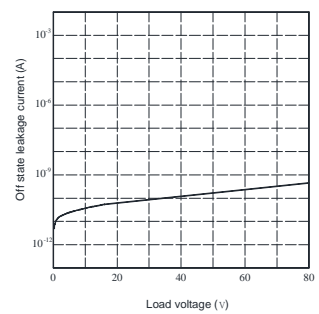
LED forward voltage Vs. Ambient temperature



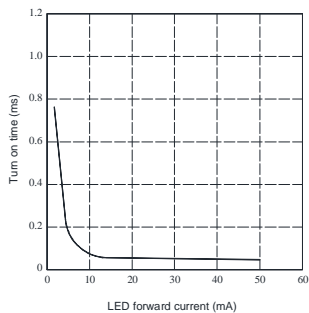
Voltage Vs. current characteristics of output at MOS portion



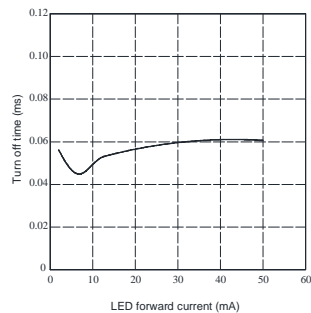
Off state leakage current Vs. Load voltage characteristics



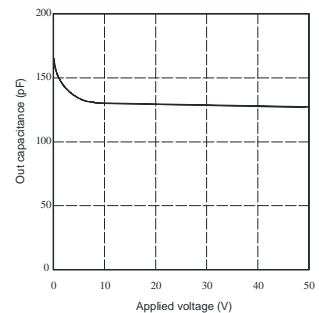
LED forward current Vs. turn on time characteristics



LED forward current Vs. turn off time characteristics



Applied voltage Vs. output capacitance characteristics

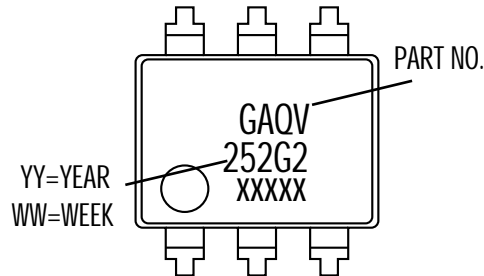


Dimensions

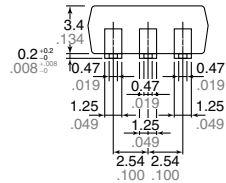
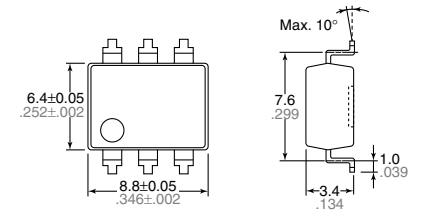
6-SMD



Dimensions
mm inch



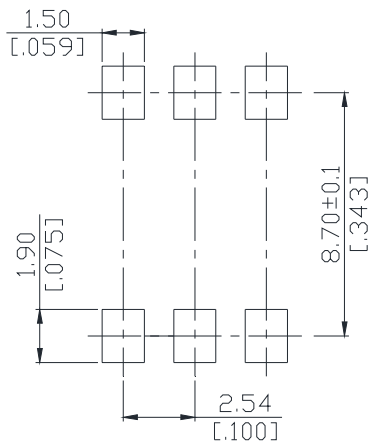
Surface mount terminal type



Terminal thickness =
0.25 .010

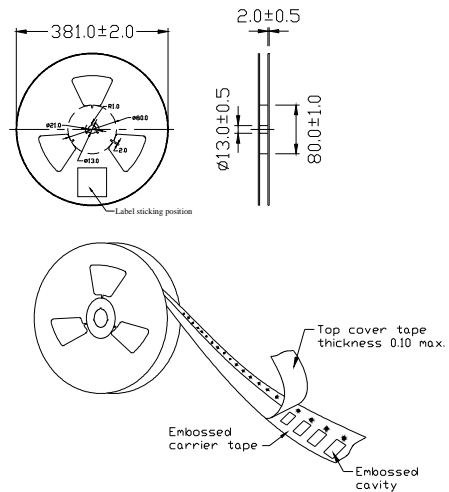
General tolerance: ±0.1 ±.004

PC board pattern (Top view)

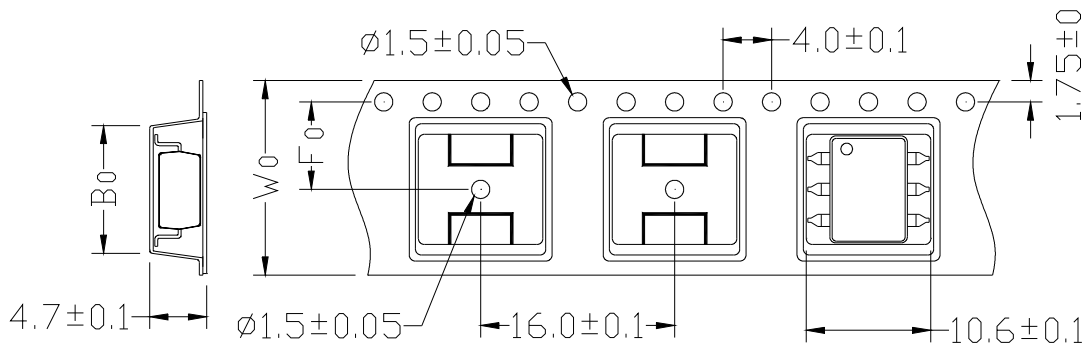


Unit : mm [inch]
Tolerance : ±0.1

Tape dimensions



Dimensions of tape reel



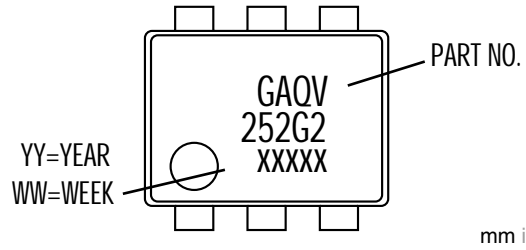
Unit: mm

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

Dimensions 6-DIP

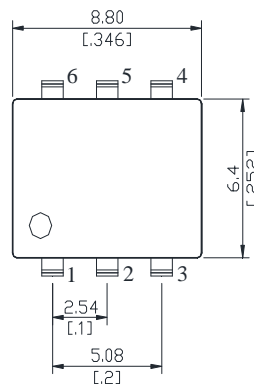
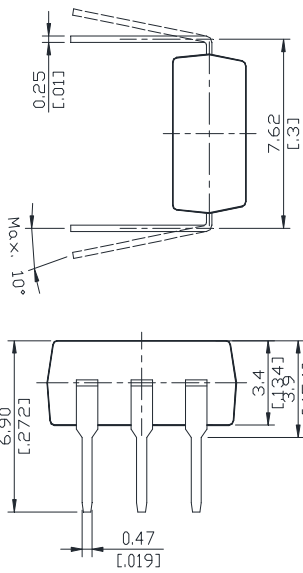


Dimensions



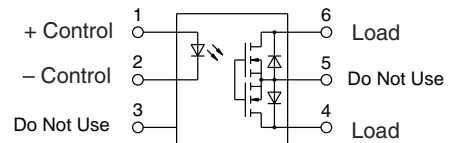
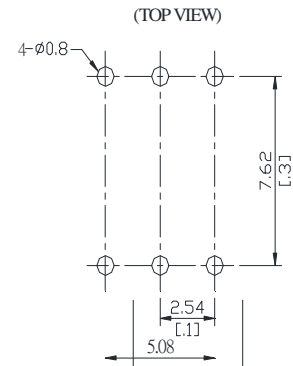
mm inch

Through hole terminal type



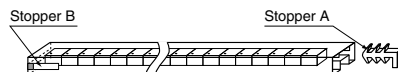
Unit : mm inch
Tolerance: +0.2 +.007

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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