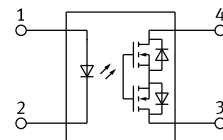


Features

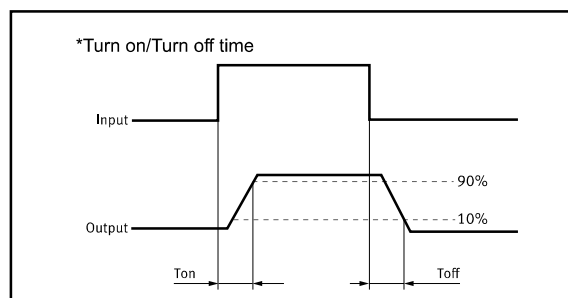
- LowRon=0.1Ω(Typ.)
- Low-level off state leakage current of max. 1 μA
- Low driver power requirements (TTL/CMOS Compatible)
- High reliability
- No moving parts
- 1500Vrms Input/Output isolation
- Arc-Free with no snubbing circuits
- SOP package 4 Pin type in miniature design (4.4×4.3×2.1mm / .173×.169×.083inch)
- The optically coupled input is controlled by a highly efficient GaAIAs infrared LED and MOS FETs on the output side.

Applications

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



1. LED Anode
2. LED Cathode
- 3, 4. Drain (MOS FET)



TYPES

Category	Output rating ^{*1}		Part No.	Packing quantity
	Load voltage	Load current		
AC/DC	60 V	0.8A	SOP-4 GAQY212G1S	Tape and reel 1-reel: 1,000 pcs.

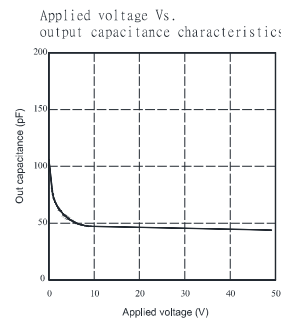
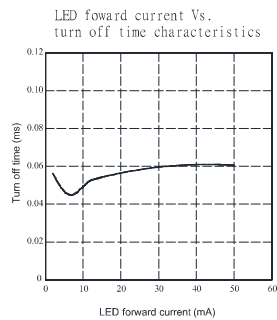
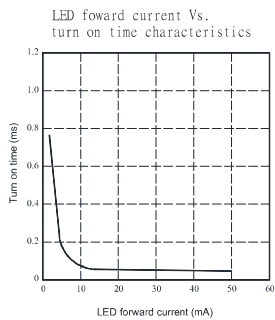
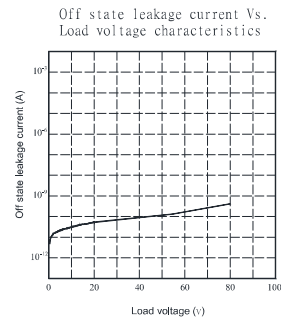
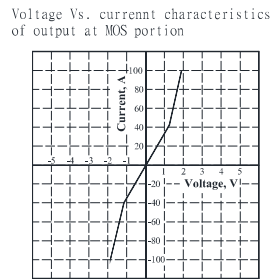
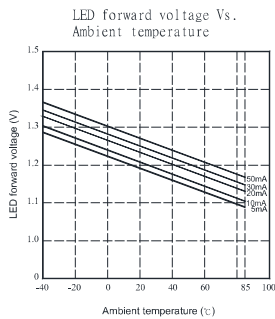
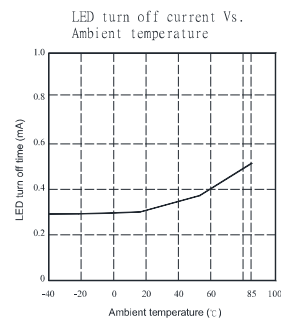
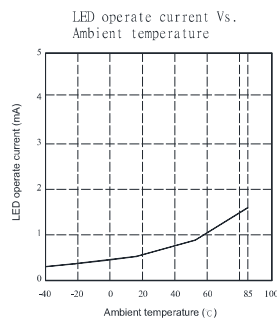
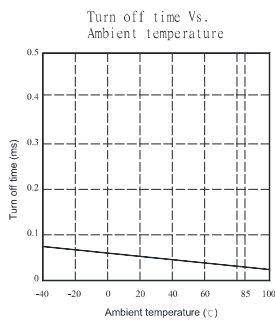
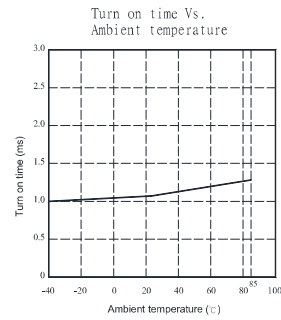
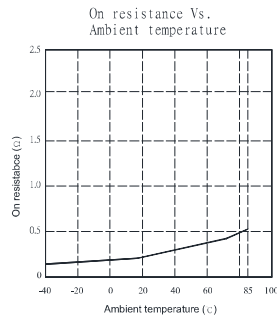
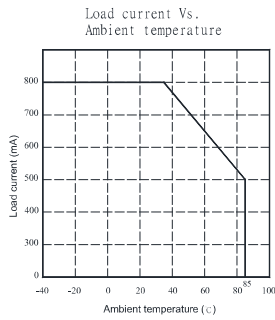
Absolute Maximum Ratings (Ambient Temperature: 25°C)

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	800	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}	1500	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)

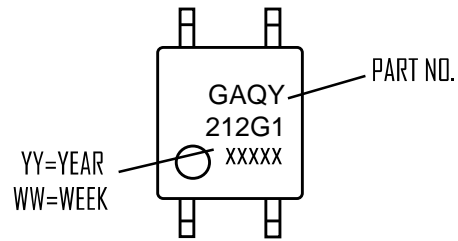
Item	Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V _F	1.2	1.4	V	I _F =10mA
	Operation LED Current	I _{F on}	0.6	1.5	mA	
	Recovery LED Current	I _{F off}	0.2	0.5	mA	
	Recovery LED Voltage	V _{F off}	0.7		V	
Output	On-Resistance	R _{on}	0.1	0.3	Ω	I _F =5mA, I _L =100mA, Time to flow is within 1 sec.
	Off-State Leakage Current	I _{Leak}		1.0	uA	V _L =Rating
	Output Capacitance	C _{out}		115	pF	V _L =0, f=1MHz
Transmission	Turn-On Time	T _{on}	1.0	1.3	ms	I _F =5mA, I _L =100mA,
	Turn-Off Time	T _{off}	0.08	0.2	ms	
Coupled	I/O Isolation Resistance	R _{I/O}	10 ¹⁰		Ω	DC500V
	I/O Capacitance	C _{I/O}		0.8	1.5	pF

Reference Data

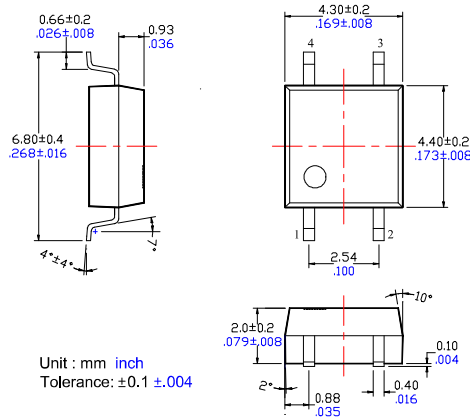


Dimensions

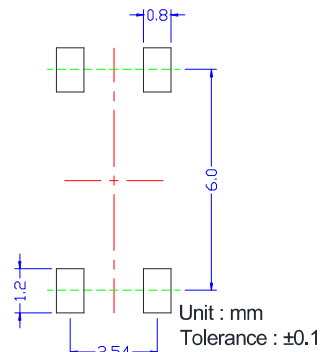
4-SOP



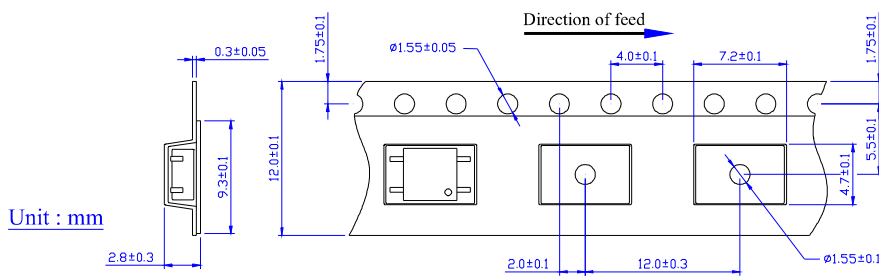
Surface mount terminal type



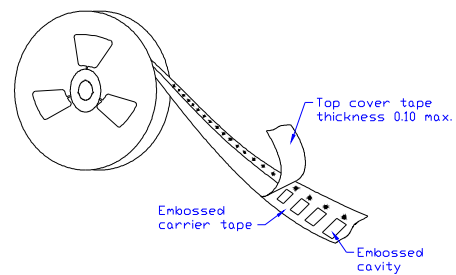
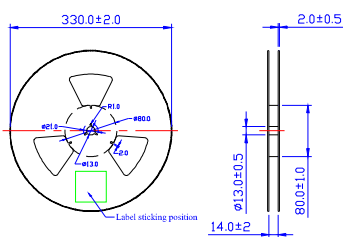
Recommended mounting pad (Top view)



Tape dimensions



Dimensions of tape reel



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