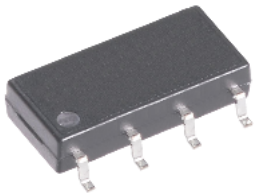
Features

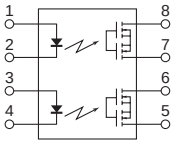
- SOP package 8 Pin type in miniature design (4.4×9.4×2.1mm / .173×.37×.083inch)
- Low driver power requirements (TTL/CMOS Compatible)
- No moving parts
- High reliability
- Arc-Free with no snubbing circuits
- 1500Vrms Input/Output isolation
- Tape & Reel version available

Applications

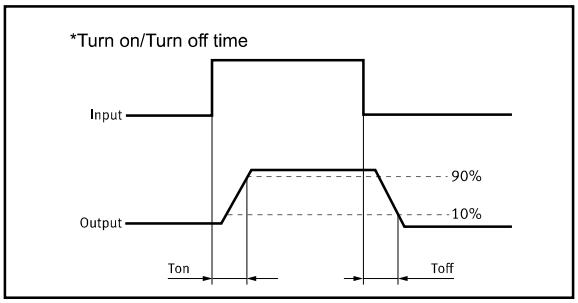
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine



SOP-8



1,3. LED Anode
2,4. LED Cathode
5,6. Drain (MOS FET)
7,8. Drain (MOS FET)



TYPES

Category	Output rating*1		Part No.	Packing quantity
	Load voltage	Load current	SOP-8	Tape and reel
AC/DC	60V	1.1A	GAQW212G1S	1-reel: 1,000 pcs.

Absolute Maximum Ratings (Ambient Temperature: 25℃)

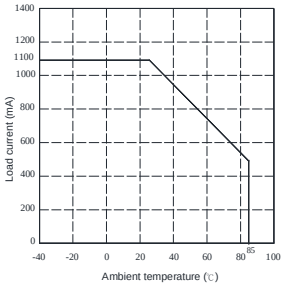
Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I_F	50	mA	
	Peak LED Current	I_{FP}	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	V_R	5	V	
	Input Power Dissipation	P_{In}	75	mW	
Output	Load Voltage	V_L	60	V(AC peak or DC)	
	Load Current	I_L	1.1	A	
	Peak Load Current	I_{Peak}	4.0	A	100ms(1 pulse)
	Output Power Dissipation	Pout	380	mW	
Total Power Dissipation		P_T	450	mW	
I/O Breakdown Voltage		$V_{I/O}$	1500	Vrms	RH=60%, 1min
Operating Temperature		T_{opr}	-40 to +85	℃	
Storage Temperature		T_{stg}	-40 to +100	℃	
Pin Soldering Temperature		T_{sol}	260	℃	10 sec max.

Electrical Specifications (Ambient Temperature: 25℃)

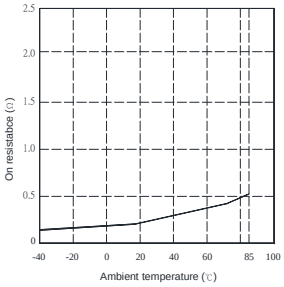
Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V_F		1.2	1.4	V	I_F=10mA
	Operation LED Current	$I_{F\ on}$		0.5	2.0	mA	
	Recovery LED Current	$I_{F\ off}$		0.35	0.5	mA	
	Recovery LED Voltage	$V_{F\ off}$	0.7			V	
Output	On-Resistance	R_{on}		0.13	0.5	Ω	I_F=5mA,I_L=100mA, Time to 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
Transmis sion	Turn-On Time	T_{on}		1.0	1.3	ms	I_F=5mA, I_L=100mA,
	Turn-Off Time	T_{off}		0.6	0.8	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

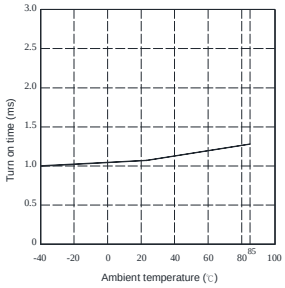
Load current Vs. Ambient temperature



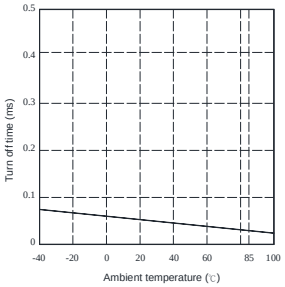
On resistance Vs. Ambient temperature



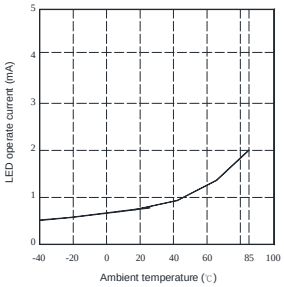
Turn on time Vs. Ambient temperature



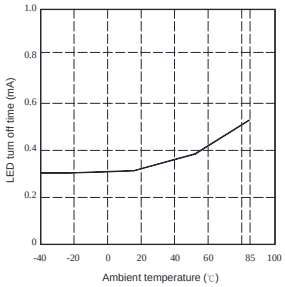
Turn off time Vs. Ambient temperature



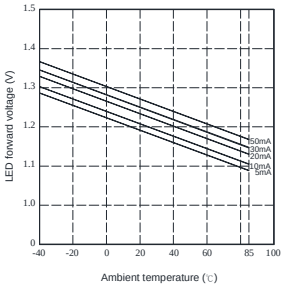
LED operate current Vs. Ambient temperature



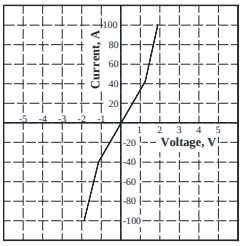
LED turn off current Vs. Ambient temperature



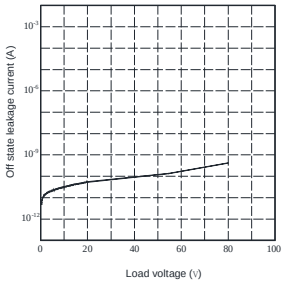
LED forward voltage Vs. Ambient temperature



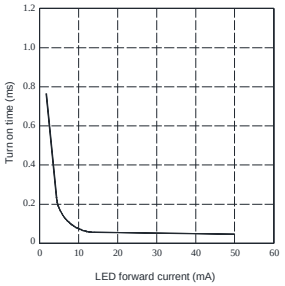
Voltage Vs. currennt characteristics of output at MOS portion



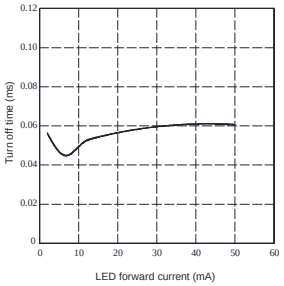
Off state leakage current Vs. Load voltage characteristics



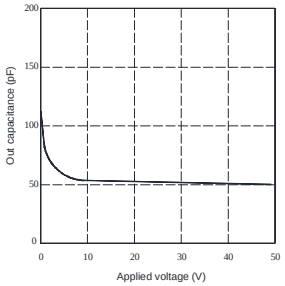
LED foward current Vs. turn on time characteristics



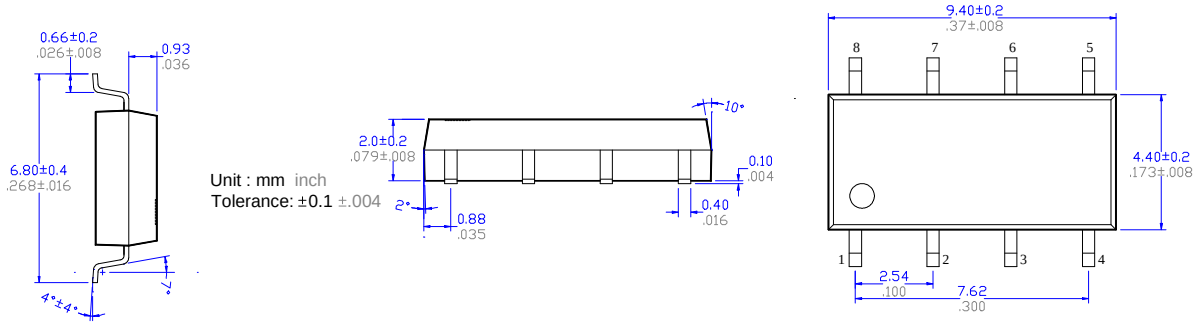
LED foward current Vs. turn off time characteristics



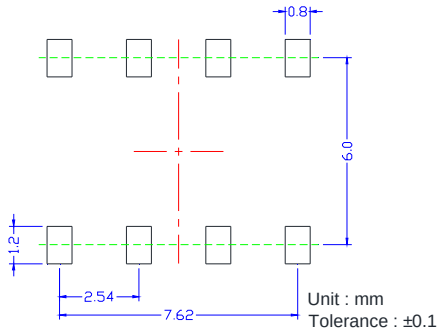
Applied voltage Vs. output capacitance characteristics



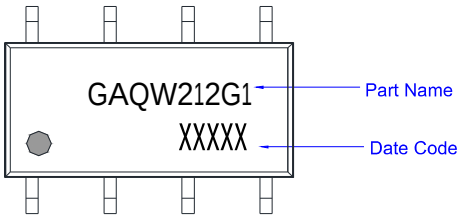
Dimensions



Recommended mounting pad
(TOP VIEW)

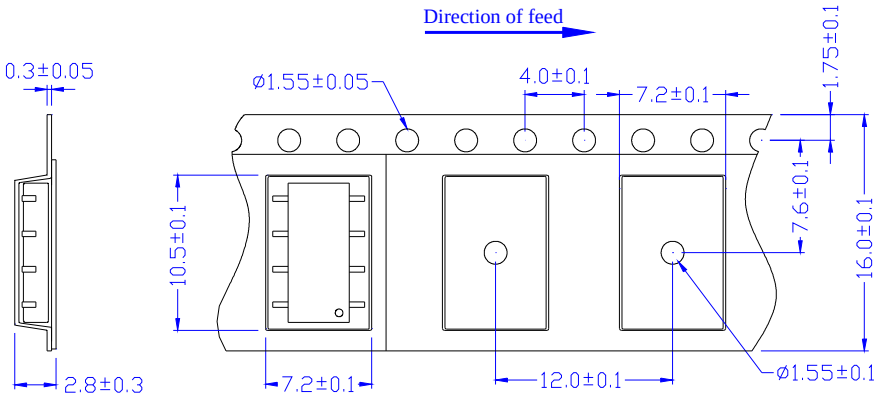


Marking

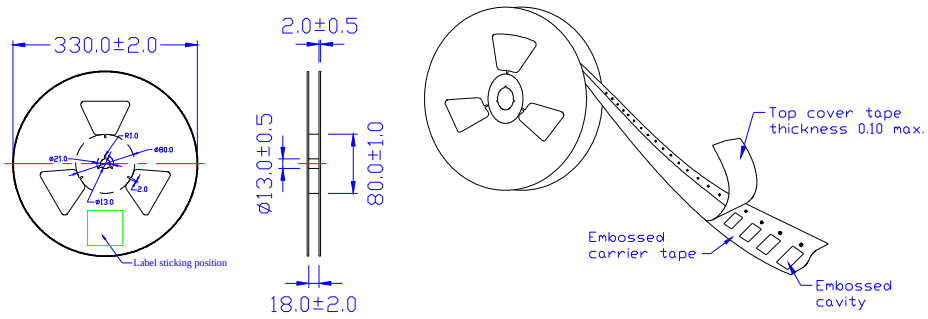


Tape dimensions

Unit : mm



Dimensions of tape reel



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