

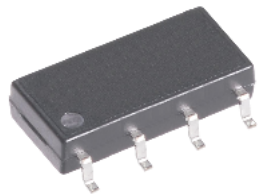


## Features

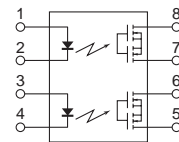
- \* SOP package 8 Pin type in miniature design
- \* Low driver power requirements (TTL/CMOS Compatible)
- \* Low CxR . Output capacitance=28pF(Typ.)
- \* On-Resistance=0.8Ω(Typ.) , Off-State leakage current= 1nA(Typ.)
- \* No moving parts ,High reliability
- \* Arc-Free with no snubbing circuits
- \* 1500Vrms Input/Output isolation
- \* Tape & Reel version available

## Applications

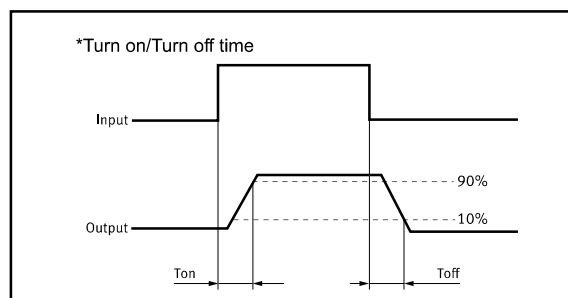
- \* Telecommunications (PC, Electronic notepad)
- \* Measuring and Testing equipment
- \* Industrial control
- \* Security equipments
- \* High speed inspection machine



SOP-8



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



## TYPES

Category	Output rating <sup>*1</sup>		Part No.	Packing quantity
	Load voltage	Load current	SOP	Tape and reel
AC/DC	60 V	0.5A	GAQW212GS	1-reel: 2,000

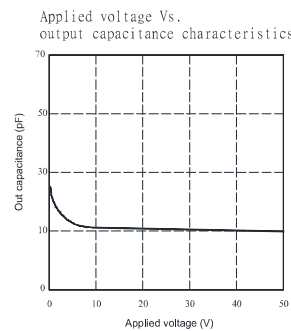
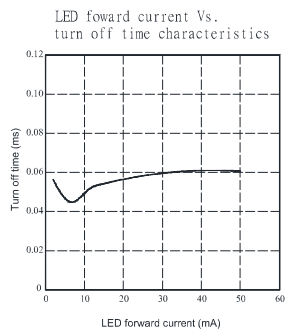
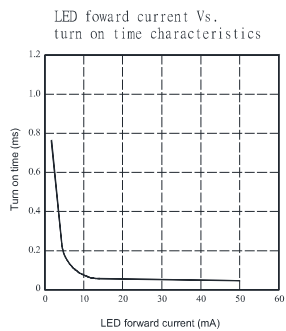
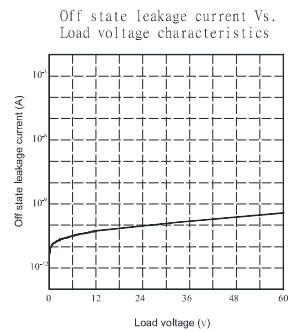
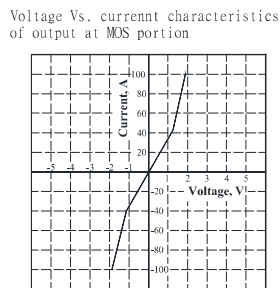
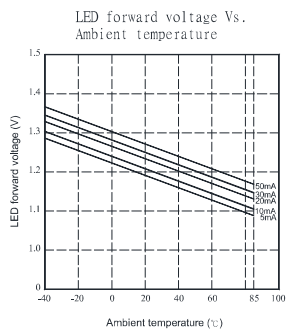
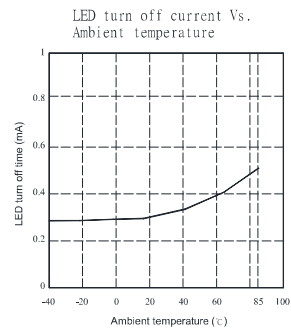
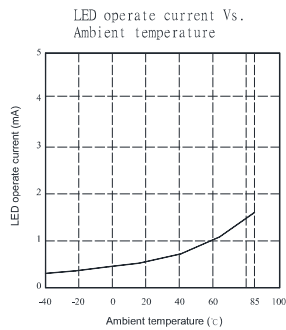
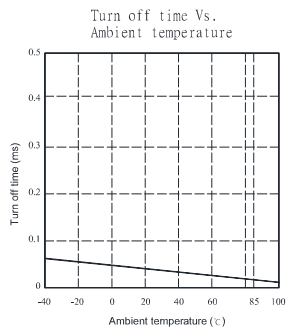
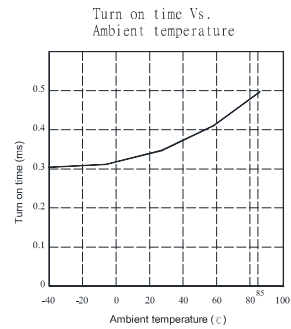
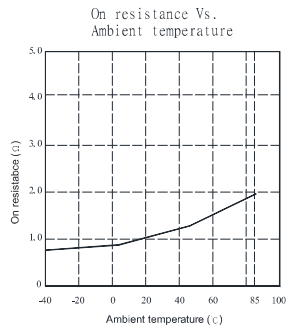
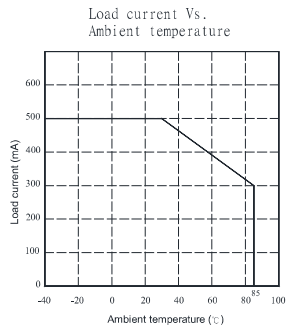
Absolute Maximum Ratings (Ambient Temperature: 25°C)

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	$I_L$	500	mA	
	Peak Load Current	$I_{Peak}$	1.5	A	100ms(1 pulse)
	Output Power Dissipation	$P_{out}$	450	mW	
Total Power Dissipation		$P_T$	500	mW	
I/O Breakdown Voltage		$V_{I/O}$	1500	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	$V_F$		1.2	1.4	V	$I_F=10mA$
	Operation LED Current	$I_{Fon}$		0.8	2.0	mA	
	Recovery LED Current	$I_{Foff}$		0.35	0.5	mA	
	Recovery LED Voltage	$V_{Foff}$	0.7			V	
Output	On-Resistance	$R_{on}$		0.8	2	$\Omega$	$I_F=5mA, I_L=100mA,$ Time to flow is within 1 sec.
	Off-State Leakage Current	$I_{Leak}$		0.5	1.0	$\mu A$	$V_L=Rating$
	Output Capacitance	$C_{out}$		28		pF	$V_L=0, f=1MHz$
Transmission	Turn-On Time	$T_{on}$		0.35	0.5	ms	$I_F=5mA, I_L=100mA,$
	Turn-Off Time	$T_{off}$		0.2	0.3	ms	
Coupled	I/O Isolation Resistance	$R_{I/O}$	$10^{10}$			$\Omega$	DC500V
	I/O Capacitance	$C_{I/O}$		0.8	1.5	pF	f=1MHz

## Reference Data





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