

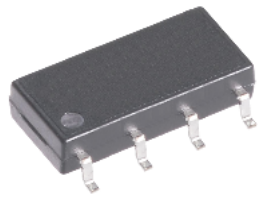


Features

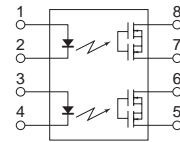
- SOP package 8 Pin type in miniature design (9.4×4.4×2.1mm / .370×.173×.079inch)
- Low driver power requirements (TTL/CMOS Compatible)
- Contact form: Normally-Off (2b)
- Load voltage: 400V max.
- On-Resistance: 50Ω max.
- 1500Vrms Input/Output isolation
- Tape & Reel version available

Applications

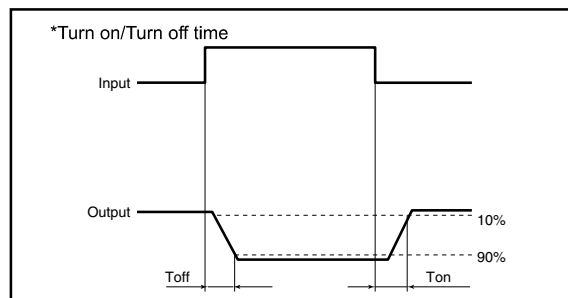
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine



SOP-8



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



TYPES

Category	Output rating ^{**1}		Part No.	Packing quantity
	Load voltage	Load current		
AC/DC	400V	120mA	GAQW414S	1-reel: 1,000 pcs.

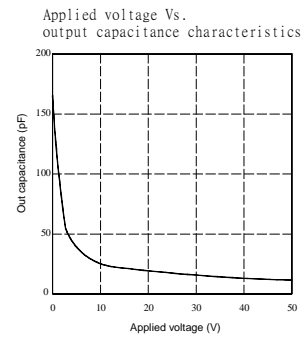
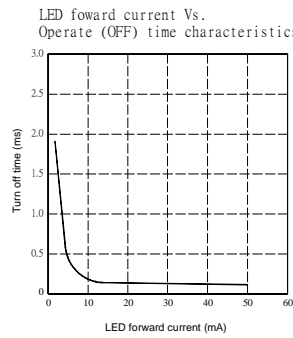
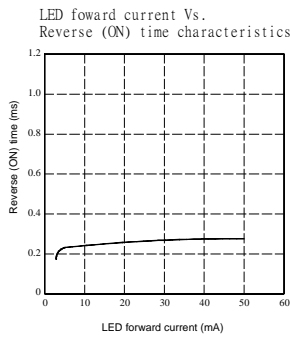
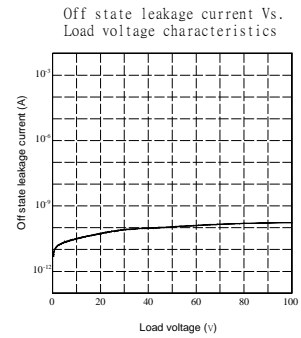
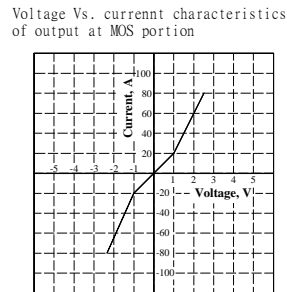
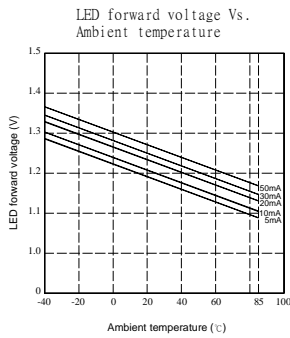
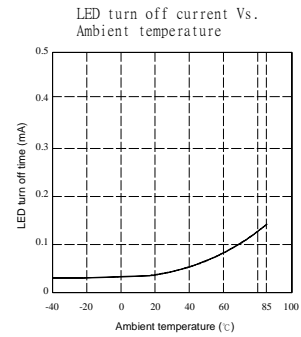
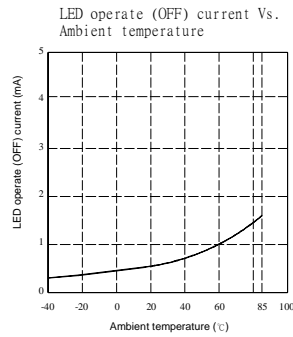
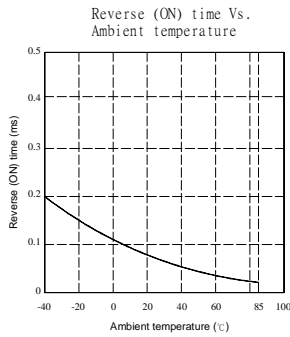
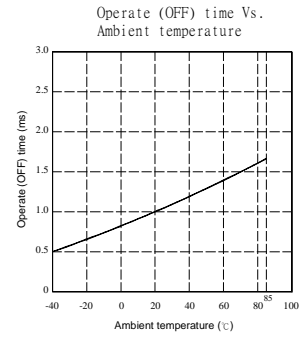
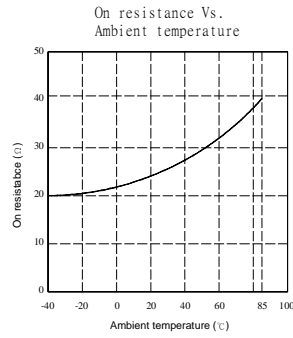
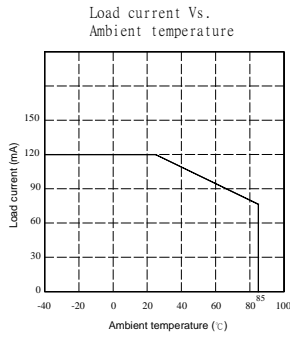
Absolute Maximum Ratings (Ambient Temperature: 25°C)

Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I _F	50	mA	
	Peak LED Current	I _{FP}	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	400	V(AC peak or DC)	
	Load Current	I _L	120	mA	
	Peak Load Current	I _{Peak}	0.3	A	1ms(1 pulse)
	Output Power Dissipation	P _{Out}	500	mW	
Total Power Dissipation		P _T	550	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 _{Fon}		0.5	3.0	mA	
	Recovery LED Current	I _{Foff}		0.35	0.5	mA	
	Recovery LED Voltage	V _{Foff}	0.5			V	
Output	On-Resistance	R _{on}		20	50	Ω	I _F =0mA, I _L =50mA, Time to flow is within 1 sec.
	Off-State Leakage Current	I _{Leak}			10	uA	I _F =5mA, V _L =400V
	Output Capacitance	C _{out}		165		pF	I _F =5mA, V _L =0, f=1MHz
Transmission	Turn-Off Time	T _{off}		0.5	3.0	ms	I _F =5mA, I _L =50mA
	Turn-On Time	T _{on}		0.02	1.0	ms	
Coupled	I/O Isolation Resistance	R _{I/O}	10 ¹⁰			Ω	DC500V
	I/O Capacitance	C _{I/O}		0.8		pF	f=1MHz

Reference Data



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