Features

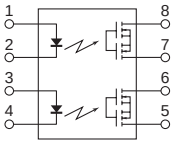
- Low driver power requirements (TTL/CMOS Compatible)
- No moving parts
- High reliability
- Arc-Free with no snubbing circuits
- 3750Vrms Input/Output isolation

Applications

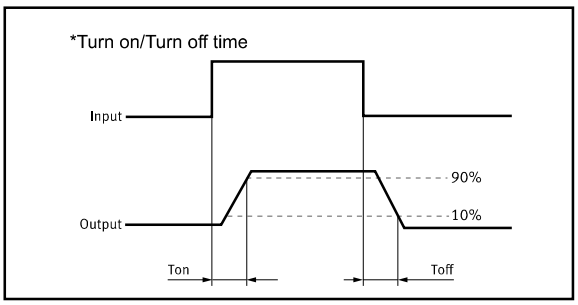
- Telecommunications (PC, Electronic notepad)
- Measuring and Testing equipment
- Industrial control
- Security equipments
- High speed inspection machine

SMD-8

DIP-8



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



TYPES

Category	Output rating				Packing quantity
	Load voltage	Load current	Part No.	Package	Tape and reel
AC/DC	350V	150mA	GAQW210E	DIP-8	25pcs/Tube
			GAQW210EH	SMD-8	1000pcs/1reel

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	350	V(AC peak or DC)	
	Load Current	I_L	150	mA	
	Peak Load Current	I_{Peak}	0.8	A	100ms(1 pulse)
	Output Power Dissipation	Pout	750	mW	
Total Power Dissipation		P_T	800	mW	
I/O Breakdown Voltage		$V_{I/O}$	3750	Vrm	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.

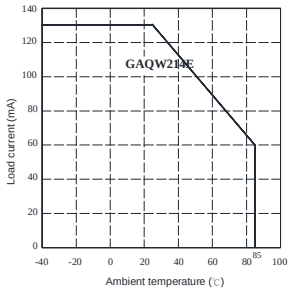
Electrical Specifications (Ambient Temperature: 25℃)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V_F	1.23	1.3	1.50	V	I_F=10mA
	Operation LED Current	$I_{F\ On}$		0.9	3.0	mA	
	Recovery LED Current	$I_{F\ Off}$		0.35	0.5	mA	
	Recovery LED Voltage	$V_{F\ Off}$	0.5	1.2		V	
Output	On-Resistance	R_{On}		14	18	Ω	I_F=5mA,I_L=100mA, Time to flow is within 1 sec.
	Off-State Leakage Current	I_{Leak}			0.1	uA	V_L=Rating
	Output Capacitance	C_{Out}		58		pF	V_L=0, f=1MHz
Transmission	Turn-On Time	T_{On}		0.3	1.0	ms	I_F=5mA, I_L=100mA,
	Turn-Off Time	T_{Off}		0.03	0.5	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

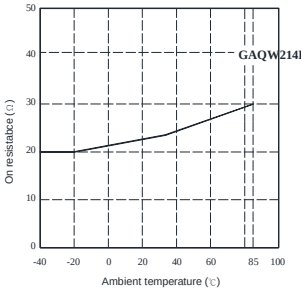
Please obey the following conditions to ensure proper device operation and resetting. Input LED current (Recommended value): IF ≥5mA and ≤30mA.
Examples of resistance value to control LED forward current (IF=5mA,INPUT VOLTAGE="E",RESISTORS="R")
"E"=3.3V,"R"=330Ω; "E"=5V,"R"=640Ω; "E"=12V,"R"=1.9KΩ; "E"=15V,"R"=2.5KΩ; "E"=24V,"R"=4.1KΩ;

Reference Data

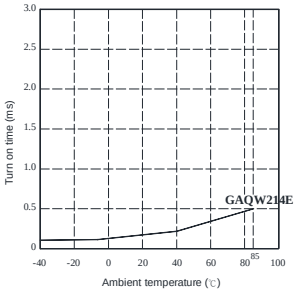
Load current Vs. Ambient temperature



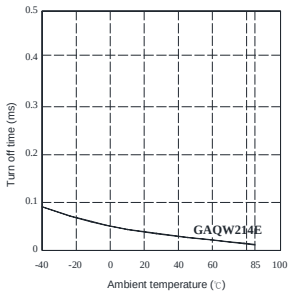
On resistance Vs. Ambient temperature



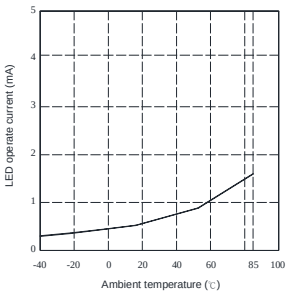
Turn on time Vs. Ambient temperature



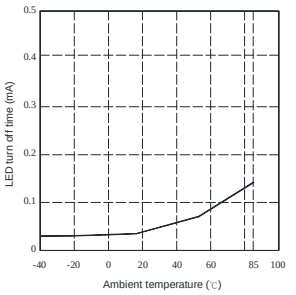
Turn off time Vs. Ambient temperature



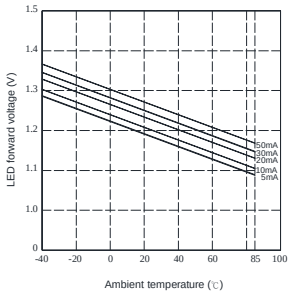
LED operate current Vs. Ambient temperature



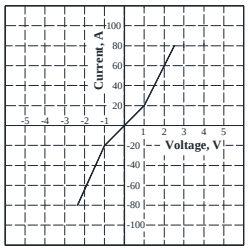
LED turn off current Vs. Ambient temperature



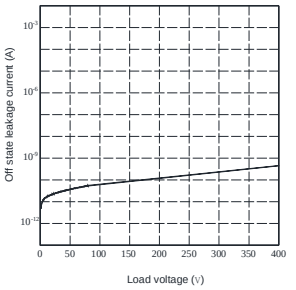
LED forward voltage Vs. Ambient temperature



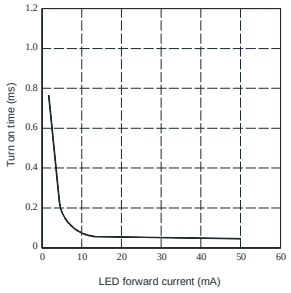
Voltage Vs. currennt characteristics of output at MOS portion



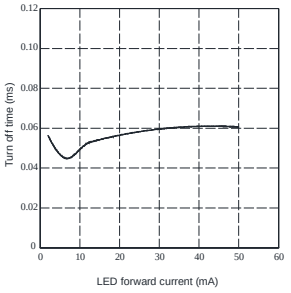
Off state leakage current Vs. Load voltage characteristics



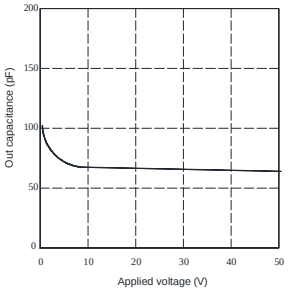
LED foward current Vs. turn on time characteristics



LED foward current Vs. turn off time characteristics



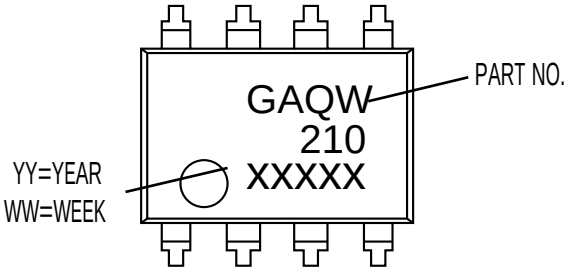
Applied voltage Vs. output capacitance characteristics



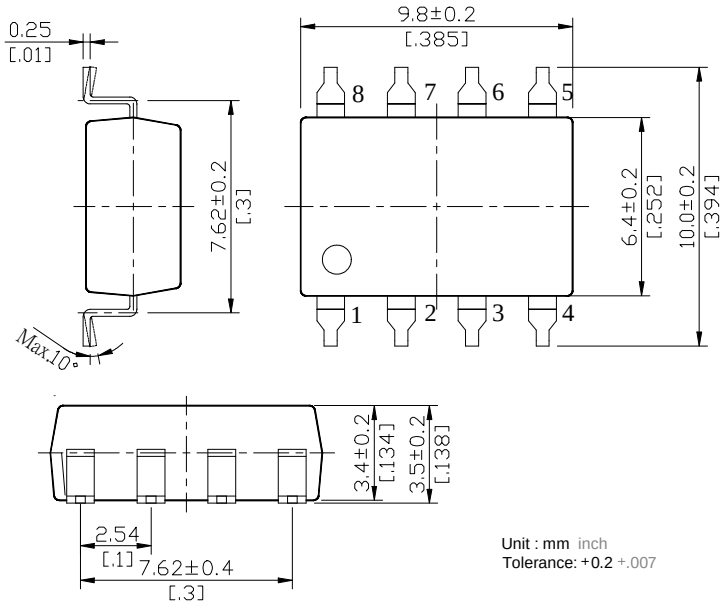
8-SMD

Dimensions

mm inch



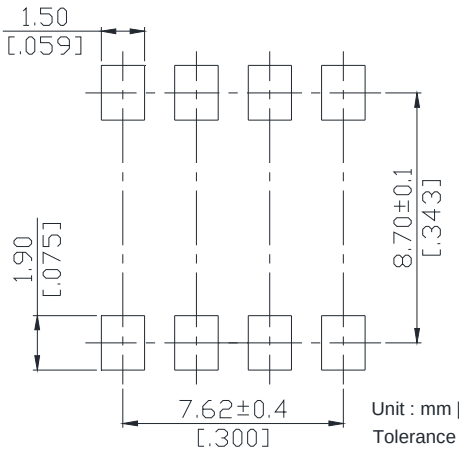
Surface mount terminal type



Unit : mm inch
Tolerance: +0.2 +.007

PC board pattern

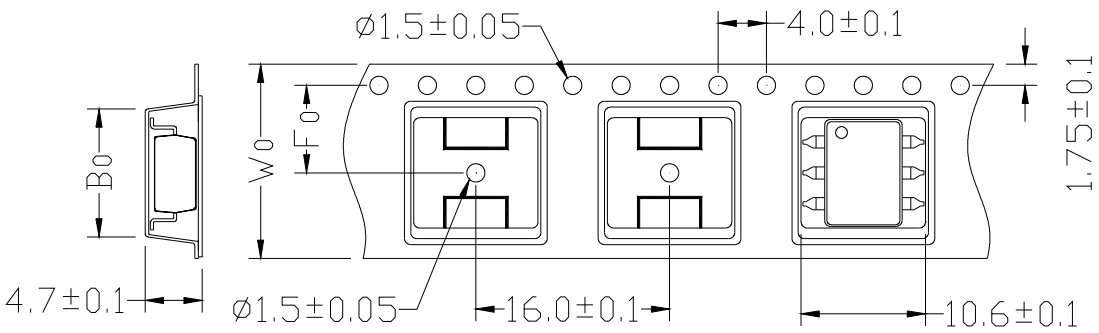
(Top view)



Unit : mm [inch]
Tolerance : ±0.1

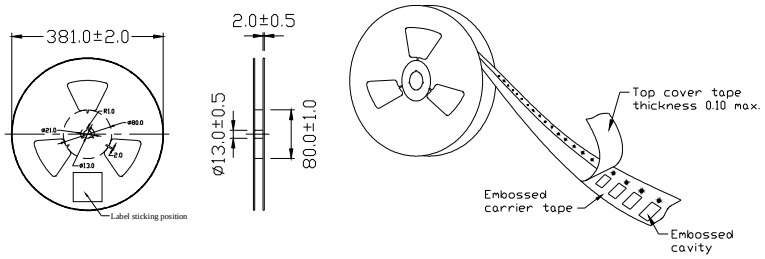
Tape dimensions

Direction of feed



Unit: mm

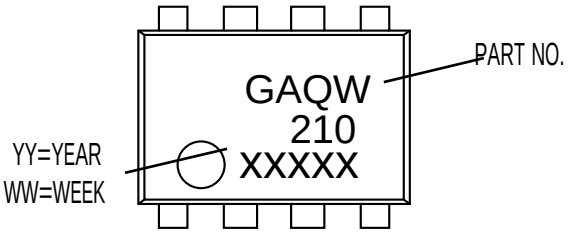
Dimensions of tape reel



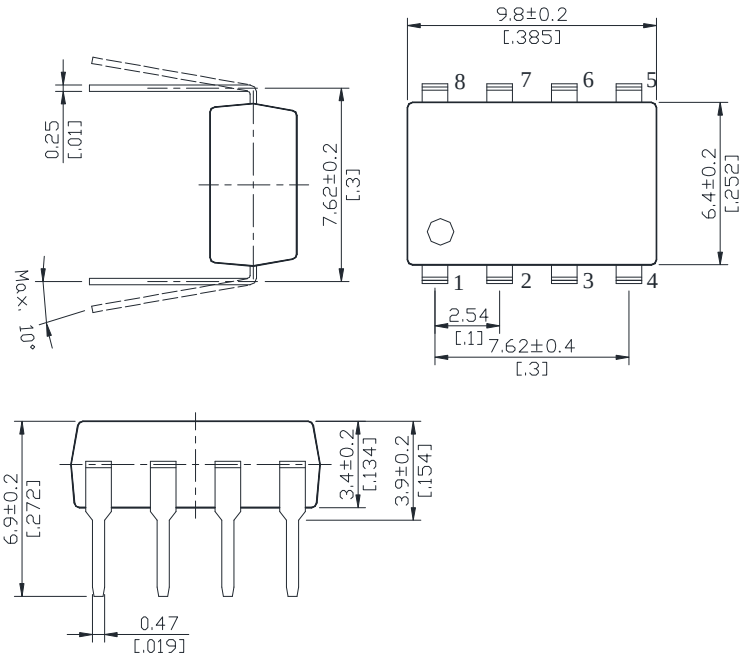
8-DIP

Dimensions

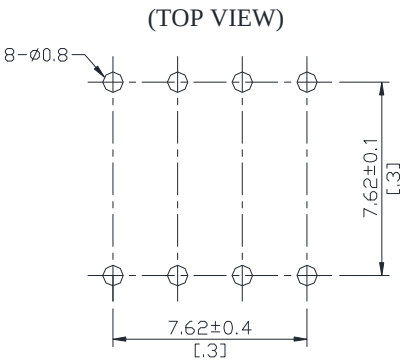
mm inch



Through hole terminal type



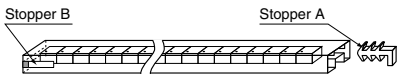
PC board pattern



Unit : mm inch
Tolerance: +0.2 +.007

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.



单击下面可查看定价，库存，交付和生命周期等信息

>>SUPSiC(国晶微)