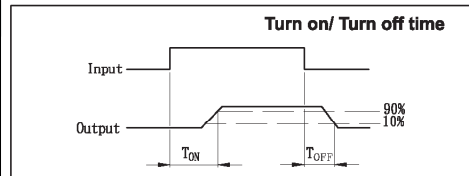
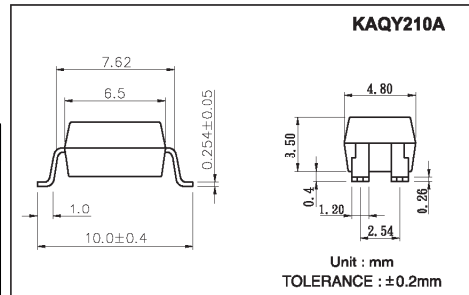
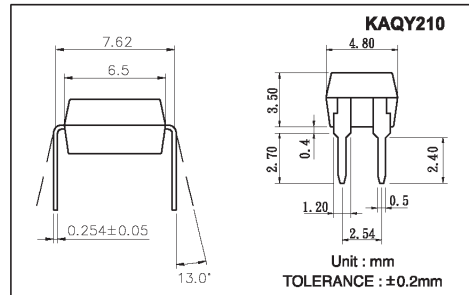


**Features**

1. Normally Open, Single Pole Single Throw
2. Control 350VAC or DC Voltage
3. Switch 130mA Loads
4. LED control Current, 5mA
5. Low ON-Resistance
6. dv/dt, >500V/ms
7. Isolation Test Voltage, 3750VACrms



**Absolute Maximum Ratings**

(Ta=25°C)

Emitter ( Input )	Detector ( Output )
Reverse Voltage.....5.0V	Output Breakdown Voltage .....±350V
Continuous Forward Current .....50mA	Continuous Load Current .....±130mA
Peak Forward Current .....1A	Power Dissipation .....500mW
Power Dissipation .....100mW	
Derate Linearly from 25°C .....1.3mW/°C	
<b>General Characteristics</b>	
Isolation Test Voltage .....3750VACrms	Storage Temperature Range ... -40°C to +125°C
Isolation Resistance	Operating Temperature Range....-30°C to +85°C
Vio=500V, Ta=25°C ..... > 10 <sup>10</sup> Ω	Junction Temperature.....100°C
Total Power Dissipation .....550mW	Soldering Temperature,
Derate Linearly from 25°C .....2.5mW/°C	2mm from case, 10 sec .....260°C

**Electro-optical Characteristics**

(Ta=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
<b>Emitter (Input)</b>						
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA		1.2	1.5	V
Operation Input Current	I <sub>FOFF</sub>	V <sub>L</sub> =±20V, I <sub>L</sub> 5uA			5	mA
Recovery Input Current	I <sub>FON</sub>	V <sub>L</sub> =±20V, I <sub>L</sub> =100mA, t =10mS	0.2			mA
<b>Detector (Output)</b>						
Output Breakdown Voltage	V <sub>B</sub>	I <sub>B</sub> =50uA	350			V
Output Off-State Leakage	I <sub>TOFF</sub>	V <sub>T</sub> =100V, I <sub>F</sub> =0mA		0.2	1	uA
I/O Capacitance	C <sub>ISO</sub>	I <sub>F</sub> =0, f =1MHz		6		pF
ON Resistance	R <sub>ON</sub>	I <sub>L</sub> =100mA, I <sub>F</sub> =0mA		20	30	Ω
Turn-On Time	T <sub>ON</sub>	I <sub>F</sub> =10mA, V <sub>L</sub> =±20V		0.3	1.0	ms
Turn-Off Time	T <sub>OFF</sub>	t =10ms, I <sub>L</sub> =±100mA		0.7	1.5	ms

**Schematic and Wiring Diagrams**

Type	Schematic	Output configuration	Load	Connection	Wiring Diagrams
KAQY210 & KAQY210A		1a	AC/DC	—	

## Data Curve

