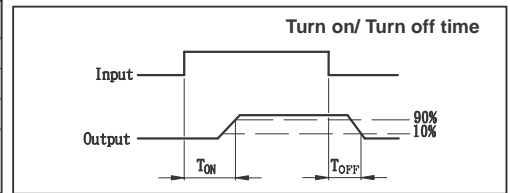
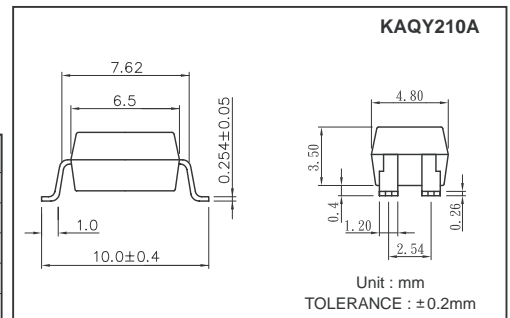
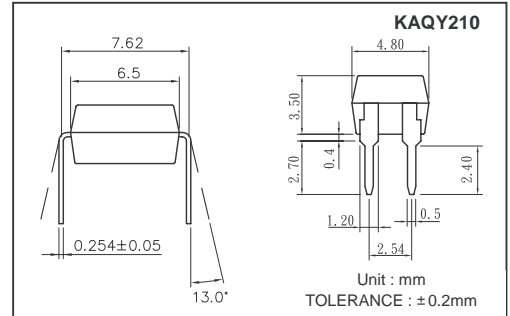


Features

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	
General Characteristics	
Isolation Test Voltage 3750V ACrms	Storage Temperature Range -40°C to +125°C
Isolation Resistance	Operating Temperature Range -30°C to +85°C
Vio=500V, Ta=25°C 10 ¹⁰	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.	T yp.	Max.	Unit
Emitter (Input)						
Forward Voltage	V _F	I _F = 10mA		1.2	1.5	V
Operation Input Current	I _{FOFF}	V _L = ±20V, I _L = 5uA			5	mA
Recovery Input Current	I _{FON}	V _L = ±20V, I _L = 100mA, t = 10mS	0.2			mA
Detector (Output)						
Output Breakdown Voltage	V _B	I _B = 50uA	350			V
Output Off-State Leakage	I _{TOFF}	V _T = 100V, I _F = 0mA		0.2	1	uA
I/O Capacitance	C _{ISO}	I _F = 0, f = 1MHz		6		pF
ON Resistance	R _{ON}	I _L = 100mA, I _F = 0mA		20	30	
Turn-On Time	T _{ON}	I _F = 10mA, V _L = ±20V		0.3	1.0	ms
Turn-Off Time	T _{OFF}	t = 10ms, I _L = ±100mA		0.7	1.5	ms

Mos Relay Schematic and Wiring Diagrams

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

Data Curve

