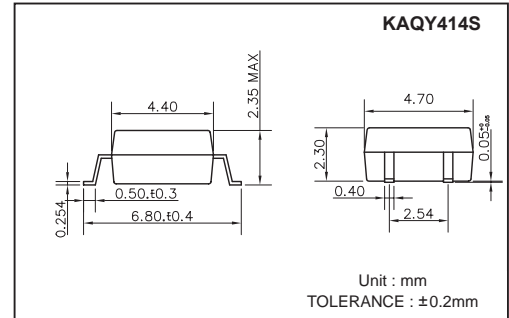


## Features

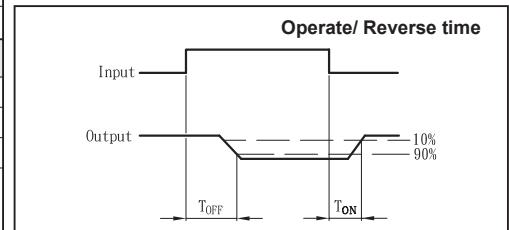
1. Normally Close, Single Pole Single Throw
2. Control 400VAC or DC Voltage
3. Switch 130mA Loads
4. LED control Current, 5mA
5. Low ON-Resistance
6.  $dv/dt$ , >500V/ms
7. Isolation Test Voltage, 1500VACrms



## Absolute Maximum Ratings

( $T_a=25^\circ\text{C}$ )

Emitter ( Input )	Detector ( Output )
Reverse Voltage.....5.0V	Output Breakdown Voltage .....±400V
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 .....1500VACrms	Storage Temperature Range ...-40°C to +125°C
Isolation Resistance	Operating Temperature Range...-30°C to +85°C
$V_{io}=500V, T_a=25^\circ\text{C}$ ..... $\geq 10^{10}\Omega$	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

( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Emitter (Input)						
Forward Voltage	$V_F$	$I_F = 10\text{mA}$		1.2	1.5	V
Operation Input Current	$I_{FOFF}$	$V_L = \pm 20V, I_L \leq 5\mu\text{A}$			5	mA
Recovery Input Current	$I_{FON}$	$V_L = \pm 20V, I_L = 100\text{mA}, t = 10\text{ms}$	0.2			mA
Detector (Output)						
Output Breakdown Voltage	$V_B$	$I_B = 50\mu\text{A}$	400			V
Output Off-State Leakage	$I_{TOFF}$	$V_T = 100V, I_F = 0\text{mA}$		0.2	2	$\mu\text{A}$
I/O Capacitance	$C_{ISO}$	$I_F = 0, f = 1\text{MHz}$		6		pF
ON Resistance	$R_{ON}$	$I_L = 100\text{mA}, I_F = 10\text{mA}$		40	50	$\Omega$
Reverse (ON) Time	$T_{ON}$	$I_F = 10\text{mA}, V_L = \pm 20V$		0.6	1.5	ms
Operate (OFF) Time	$T_{OFF}$	$t = 10\text{ms}, I_L = \pm 100\text{mA}$		0.3	1.0	ms

## Mos Relay Schematic and Wiring Diagrams

Type	Schematic	Output configuration	Load	Connection	Wiring Diagrams
KAQY414S		1b	AC/DC	-	

## Data Curve

