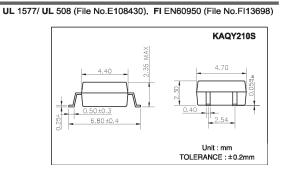
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High Voltage, Solid state Relay Mosfet Output KAQY210S

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, 1500VACrms



Absolute Maximum Ratings

Emitter (Input)	Detector (Output)			
Reverse Voltage5.0V	Output Breakdown Voltage±350V			
Continuous Forward Current50mA	Continuous Load Current±130mA			
Peak Forward Current1A	Power Dissipation 500mW			
Power Dissipation100mW				
Derate Linearly from 25°C1.3mW/°C				
General Characteristics		Turn on/ Turn of		
Isolation Test Voltage1500VACrms	Storage Temperature Range40°C to +125°C			
Isolation Resistance	Operating Temperature Range30°C to +85°C	Input		
Vio=500V, Ta=25℃	Junction Temperature100°C			
Total Power Dissipation550mW	Soldering Temperature,	Output		
Derate Linearly from 25°C2.5mW/°C	2mm from case, 10 sec260°C	T _{ON} T _{OFF}		

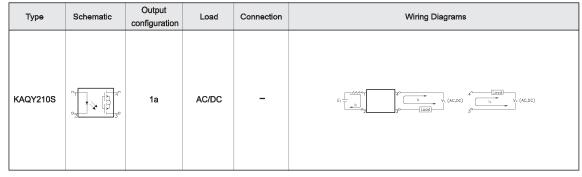
(Ta=25°C)

Electro-optical Characteristics

(Ta=25℃)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Emitter (Input)						
Forward Voltage	VF	IF =10mA		1.2	1.5	v
Operation Input Current	IFON	VL =±20V, IL =100mA, t =10mS			5	mA
Recovery Input Current	IFOFF	VL =±20V, IL 5uA	0.2			mA
Detector (Output)						
Output Breakdown Voltage	VB	IB=50uA	350			V
Output Off-State Leakage	ITOFF	VT =100V, IF =0mA		0.2	1	uA
I/O Capacitance	Ciso	IF =0, f =1MHz		6		pF
ON Resistance	Ron	I∟ =100mA, IF =10mA		20	30	Ω
Tum-On Time	TON	IF =10mA, VL =±20V		0.3	1.0	ms
Turn-Off Time	TOFF	t =10ms, I∟ =±100mA		0.7	1.5	ms

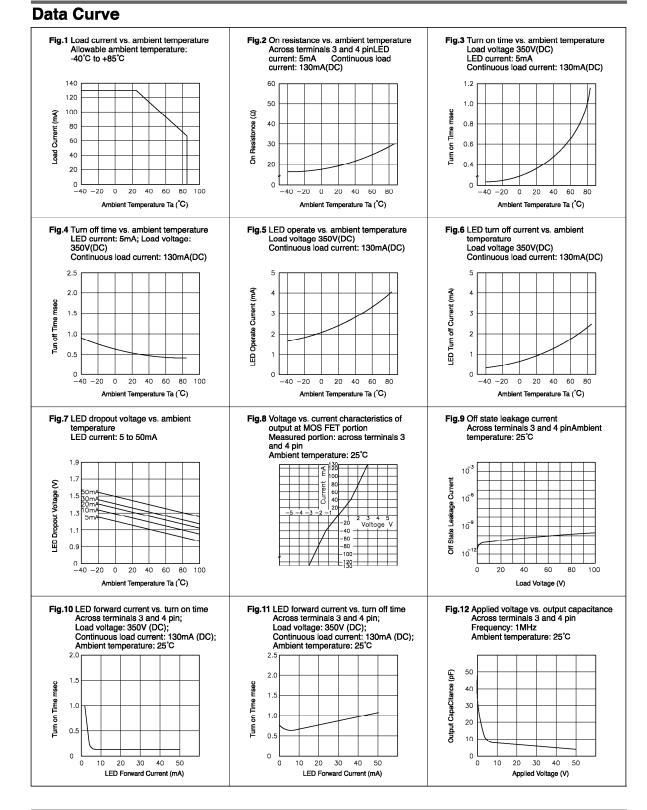
Schematic and Wiring Diagrams



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KAQY210S



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