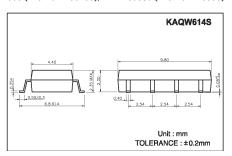
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High Voltage, Solid State Relay-MOSFET Output KAQW614S

UL 1577/ UL 508 (File No.E108430), FI EN60950 (File No.FI13698)

Features

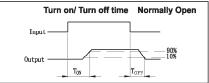
- 1. Normally Open and Close, Single Pole Single Throw
- 2. Control 400VAC or DC Voltage
- 3. Switch 130mA Loads
- 4. LED control Current, 5mA
- 5. Low ON-Resistance
- 6. dv/dt, >500V/ms
- 7. Isolation Test Voltage, 1500VACrms

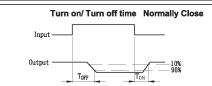


Absolute Maximum Ratings

(Ta	=25	°C

Emitter (Input)	
Reverse Voltage	5.0\
Continuous Forward Current	50mA
Peak Forward Current	1A
Power Dissipation	100mW
Derate Linearly from 25°C	1.3mW/°C
Detector (Output)	
Output Breakdown Voltage	±400V
Continuous Load Current	±130mA
Power Dissipation	500mW
General Characteristics	
Isolation Test Voltage	1500VACrms
Isolation Resistance Vio=500V, 1	「a=25°C≥10 ¹ °Ω
Total Power Dissipation	550mW
Derate Linearly from 25°C	2.5mW/°C
Storage Temperature Range	40°C to +125°C
Operating Temperature Range	30°C to +85°C
Junction Temperature	100°C
Soldering Temperature, 2mm fro	m case, 10 sec260°C





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Electro-optical Characteristics

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Parameter	Symbol Conditions		Min.	Тур.	Max.	Unit
Emitter (Input)						
Forward Voltage	VF	IF =10mA		1.2	1.5	V
Operation Input Current	IFON(N.O)	VL =±20V, IL =100mA (N.O)			5	mA
	IFOFF(N.C)	VL =±20V, IL≤5uA (N.C)				
		t = 10mS				
Recovery Input Current	IFOFF(N.O)	VL =±20V, IL≤5uA (N.O)	0.2			mA
	IFON(N.C)	VL =±20V, IL =100mA (N.C)				
		t = 10mS				

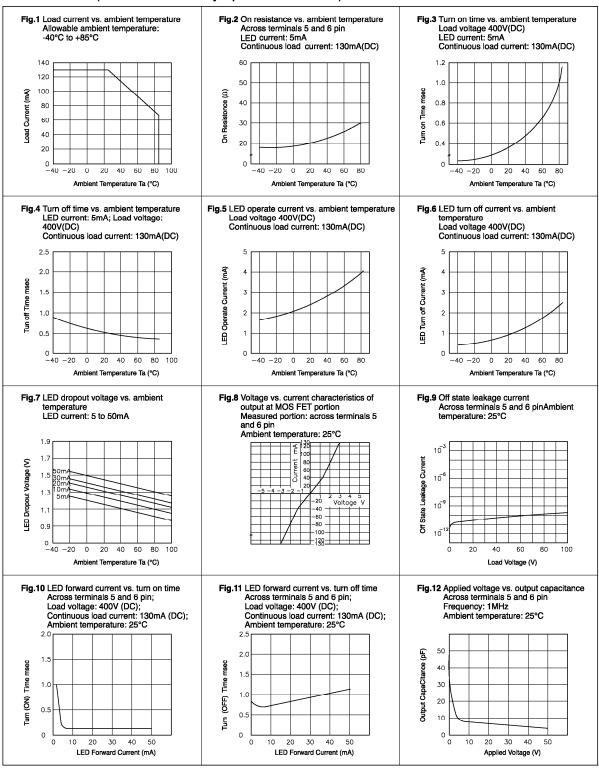
Detector (Output) normally open						
Output Breakdown Voltage	VB	IB=50uA	400			V
Output Off-State Leakage	ITOFF	VT =100V, IF =0mA		0.2	1	uA
I/O Capacitance	Ciso	IF =0, f =1MHz		6		pF
ON Resistance	Ron	IL =100mA, IF =10mA		20	30	Ω
Turn-On Time	Ton	IF =10mA, V∟ =±20V		0.3	1.0	ms
Turn-Off Time	Toff	t =10ms, I∟ =±100mA		0.7	1.5	ms

Detector (Output) normally close							
Output Breakdown Voltage	VB	IB=50uA	400			V	
Output Off-State Leakage	ITOFF	VT =100V, IF =10mA		0.2	2	uA	
I/O Capacitance	Ciso	IF =0, f =1MHz		6		pF	
ON Resistance	Ron	IL =100mA, IF =0mA		40	50	Ω	
Reverse (ON) Time	Ton	IF =10mA, VL =±20V		0.6	1.5	ms	
Operate (OFF) Time	Toff	t =10ms, IL =±100mA		0.3	1.0	ms	

Schematic and Wiring Diagrams

Туре	Schematic	Output configuration	Load	Connection	Wiring Diagrams
KAQW614S		1a1b	AC/DC	-	(1) Two independent 1 Form A & 1 Form B use Expression of the control of the con

Data Curve (KAQW614S Normally Open Characteristics)



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Data Curve (KAQW614S Normally Close Characteristics)

