

COSMO High Voltage, Solid State Relay-MOSFET Output KAQW214/214A

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

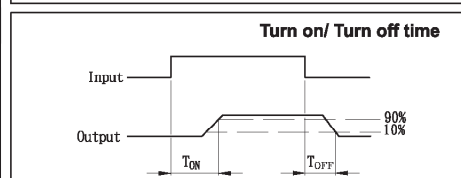
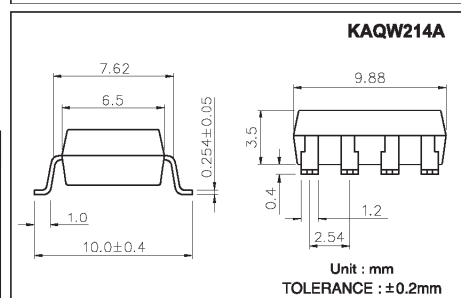
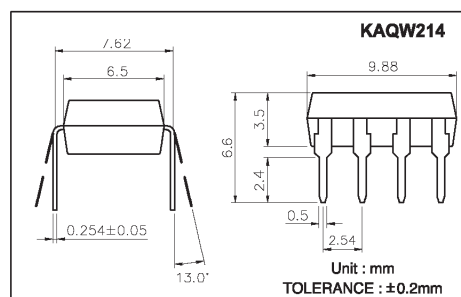
Features

1. Normally Open, 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, 3750VACrms

Absolute Maximum Ratings

(Ta=25°C)

Emitter (Input)	Detector (Output)
Reverse Voltage5.0V	Output Breakdown Voltage±400V
Continuous Forward Current50mA	Continuous Load Current±130mA
Peak Forward Current1A	Power Dissipation500mW
Power Dissipation100mW	
Derate Linearly from 25°C1.3mW/°C	
General Characteristics	
Isolation Test Voltage3750VACrms	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 Ω	Junction Temperature.....100°C
Total Power Dissipation550mW	Soldering Temperature,
Derate Linearly from 25°C2.5mW/°C	2mm from case, 10 sec260°C



Electro-optical Characteristics

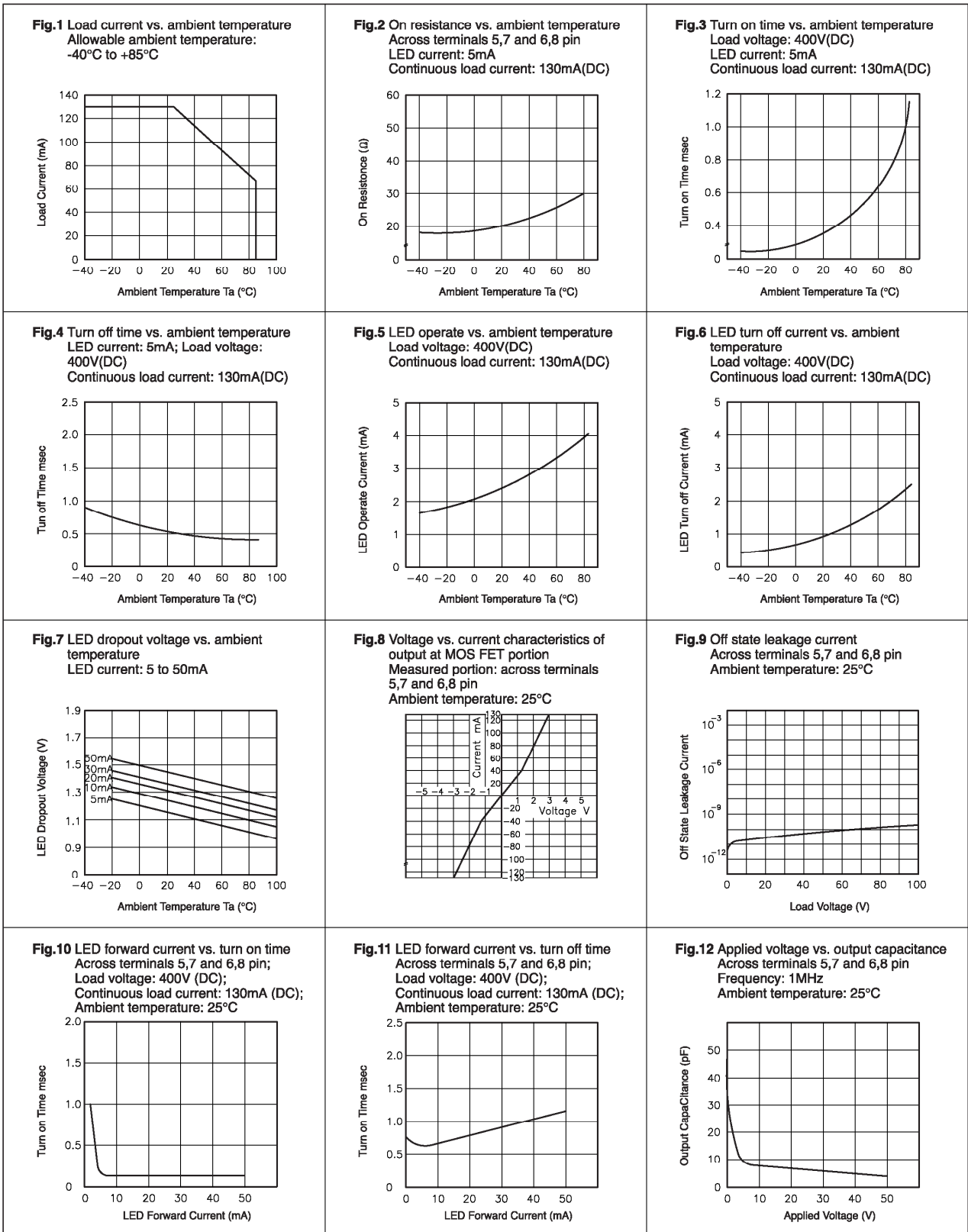
(Ta=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Emitter (Input)						
Forward Voltage	V _F	I _F =10mA		1.2	1.5	V
Operation Input Current	I _{FON}	V _L =±20V, I _L =100mA, t =10mS			5	mA
Recovery Input Current	I _{FOFF}	V _L =±20V, I _L ≤5uA	0.2			mA
Detector (Output)						
Output Breakdown Voltage	V _B	I _B =50uA	400			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		p F
ON Resistance	R _{ON}	I _L =100mA, I _F =10mA		20	30	Ω
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

Schematic and Wiring Diagrams

Type	Schematic	Output configuration	Load	Connection	Wiring Diagrams
KAQW214 & KAQW214A		2a	AC/DC	-	<p>(1) Two independent 1 Form A use</p> <p>(2) 2 Form A use</p>

Data Curve



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