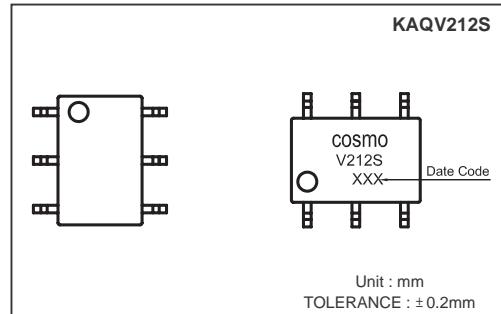


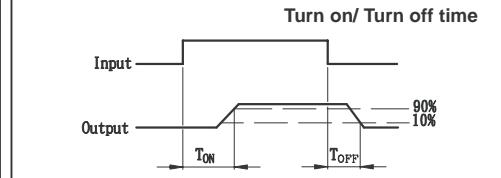
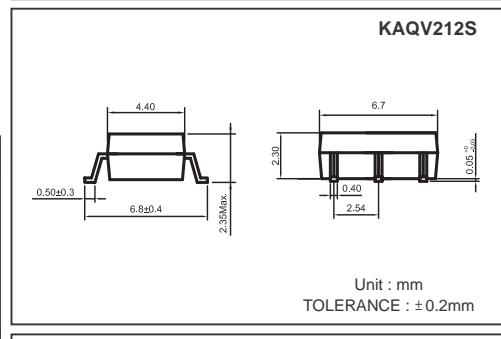
Features

1. Normally Open, Single Pole Single Throw
2. Control 60VAC or DC Voltage
3. Switch 400mA 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)	Detector (Output)	
Reverse Voltage.....	5.0V	Output Breakdown Voltage±60V
Continuous Forward Current50mA	Continuous Load Current±400mA
Peak Forward Current	1A	Power Dissipation500mW
Power Dissipation	100mW	
Derate Linearly from 25°C	1.3mW/°C	
General Characteristics		
Isolation Test Voltage.....	1500VACrms	Storage Temperature Range ...-40°C to +150°C
Isolation Resistance		Operating Temperature Range...-40°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°C	2.5mW/°C	2mm from case, 10 sec260°C

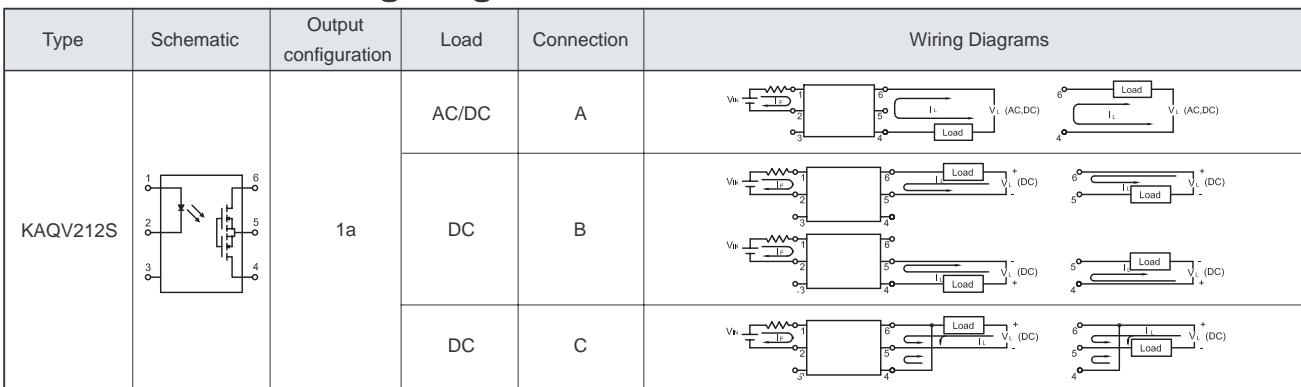


Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Emitter (Input)							
Forward Voltage	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 ≤5μA	0.2			mA	
Detector (Output)							
Output Breakdown Voltage	VB	IB=50μA	60			V	
Output Off-State Leakage	IOTFF	VT =60V, IF =0mA		0.2	1	uA	
I/O Capacitance	CISO	IF =0, f =1MHz		0.8		pF	
ON Resistance	Connection	RON	IL =100mA, IF =10mA	0.83	2.50	Ω	
				0.44	1.25		
				0.25	0.63		
Turn-On Time		TON	IF =10mA, VL =±20V t =10ms, IL =±100mA	0.2	1.5	ms	
Turn-Off Time		TOFF		0.3	1.5	ms	

Schematic and Wiring Diagrams



Data Curve

Fig.1 Load current vs. ambient temperature
Allowable ambient temperature:
-40°C to +85°C

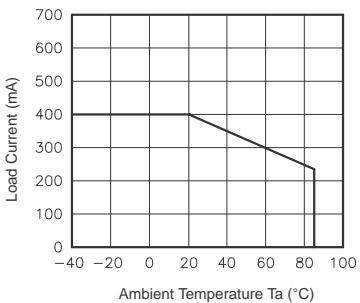


Fig.2 On resistance vs. ambient temperature
Across terminals 4 and 6 pin
LED current: 5mA
Continuous load current: 130mA(DC)

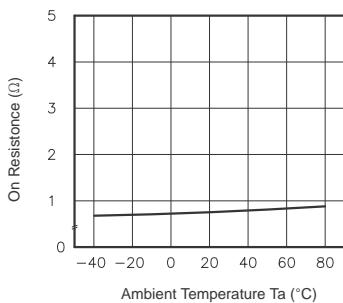


Fig.3 Turn on time vs. ambient temperature
Load voltage 60V(DC)
LED current: 5mA
Continuous load current: 130mA(DC)

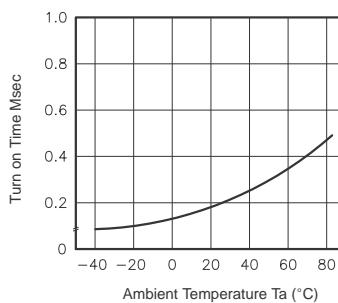


Fig.4 Turn off time vs. ambient temperature
LED current: 5mA; Load voltage:
60V(DC)
Continuous load current: 130mA(DC)

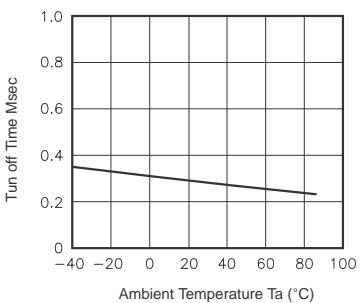


Fig.5 LED operate vs. ambient temperature
Load voltage 60V(DC)
Continuous load current: 130mA(DC)

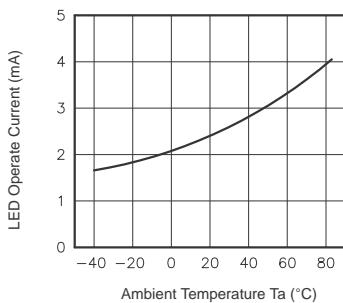


Fig.6 LED turn off current vs. ambient temperature
Load voltage 60V(DC)
Continuous load current: 130mA(DC)

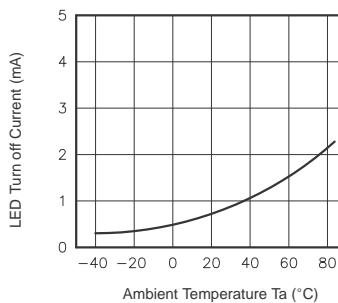


Fig.7 LED dropout voltage vs. ambient temperature
LED current: 5 to 50mA

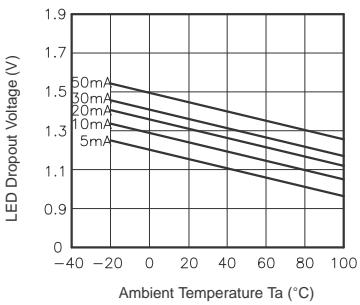


Fig.8 Voltage vs. current characteristics of output at MOS FET portion
Measured portion: across terminals 4 and 6 pin
Ambient temperature: 25°C

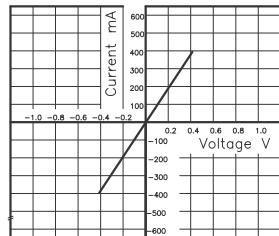


Fig.9 Off state leakage current
Across terminals 4 and 6 pin
Ambient temperature: 25°C

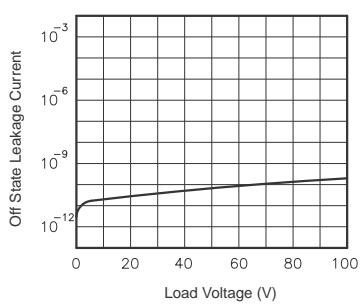


Fig.10 LED forward current vs. turn on time
Across terminals 4 and 6 pin;
Load voltage: 60V (DC);
Continuous load current: 130mA (DC);
Ambient temperature: 25°C

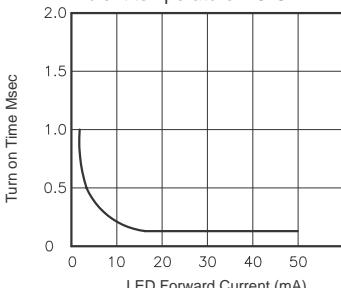


Fig.11 LED forward current vs. turn off time
Across terminals 4 and 6 pin;
Load voltage: 60V (DC);
Continuous load current: 130mA (DC);
Ambient temperature: 25°C

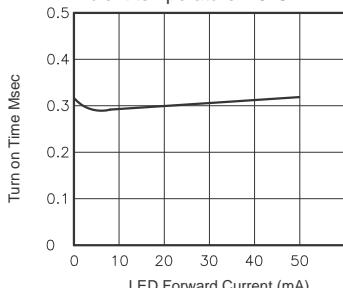


Fig.12 Applied voltage vs. output capacitance
Across terminals 4 and 6 pin
Frequency: 1MHz
Ambient temperature: 25°C

