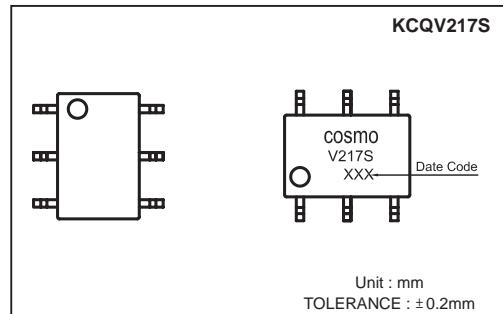


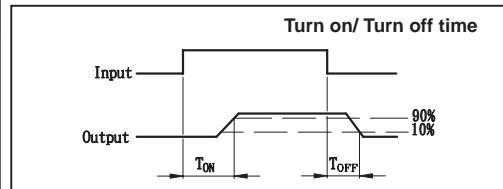
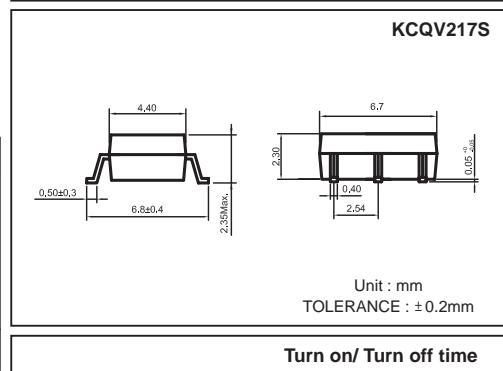
Features

1. Normally Open, Single Pole Single Throw
2. Control 200VAC or DC Voltage
3. Switch 180mA Loads
4. LED control Current, 5mA
5. Low ON-Resistance
6. dv/dt, >500V/ms
7. Isolation Test Voltage, 1500VACrms



Absolute Maximum Ratings

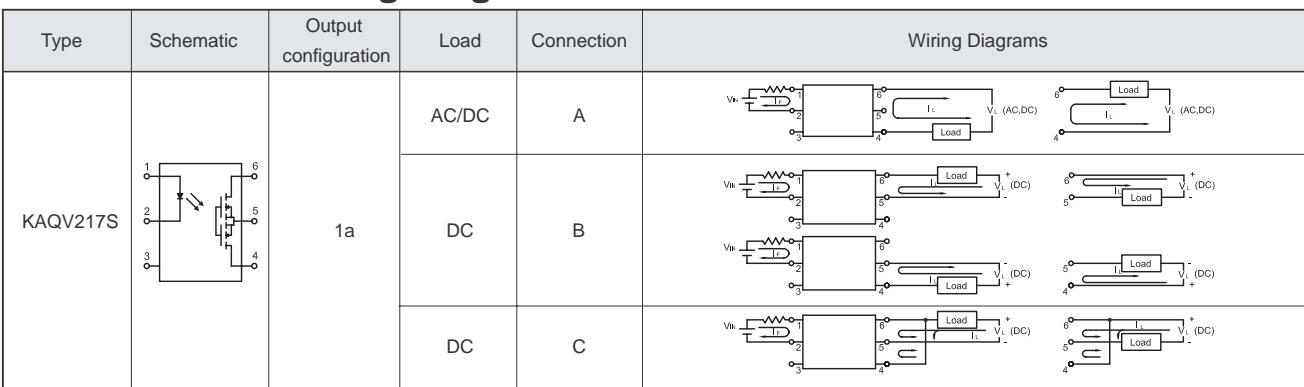
Emitter (Input)		Detector (Output)	
Reverse Voltage	5.0V	Output Breakdown Voltage	±200V
Continuous Forward Current	50mA	Continuous Load Current	±180mA
Peak Forward Current	1A	Power Dissipation	450mW
Power Dissipation	75m W		
Derate Linearly from 25°C	1.3mW/°C		
General Characteristics			
Isolation Test 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 Dissipation	500mW	Soldering Temperature,	
Derate Linearly from 25°C	2.5mW/°C	2mm from case, 10 sec	260°C



Electro-optical Characteristics

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	200			V
Output Off-State Leakage	I _{TOFF}	VT =100V, IF =0mA		0.2	1	uA
I/O Capacitance	C _{IISO}	IF =0, f =1MHz		6		pF
ON Resistance	Connection	RON	IL =100mA, IF =10mA	6	15	Ω
				3	8	
				1.5	4	
Turn-On Time	TON	IF =10mA, VL =±20V		0.4	1.0	ms
Turn-Off Time	TOFF	t =10ms, IL =±100mA		0.3	1.0	ms

Schematic and Wiring Diagrams



Data Curve

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

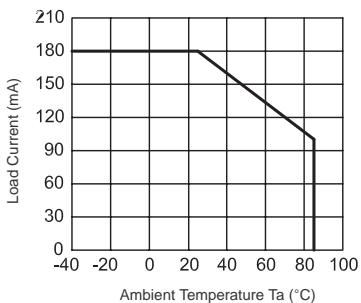


Fig.2 On resistance vs. ambient temperature
Across terminals 4 and 6 pin
LED current: 5mA
Continuous load current: 180mA(DC)

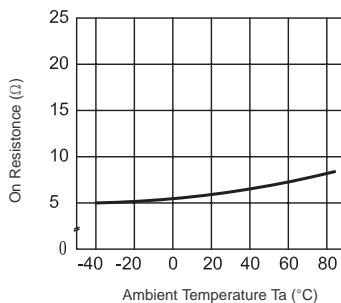


Fig.3 Turn on time vs. ambient temperature
Load voltage 200V(DC)
LED current: 5mA
Continuous load current: 180mA(DC)

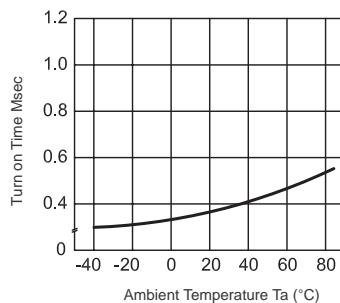


Fig.4 Turn off time vs. ambient temperature
LED current: 5mA; Load voltage:
200V(DC)
Continuous load current: 180mA(DC)

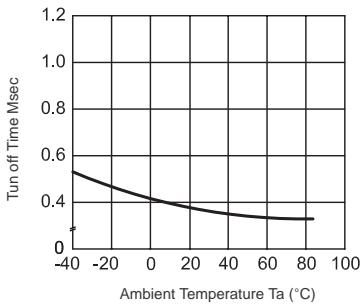


Fig.5 LED operate vs. ambient temperature
Load voltage 200V(DC)
Continuous load current: 180mA(DC)

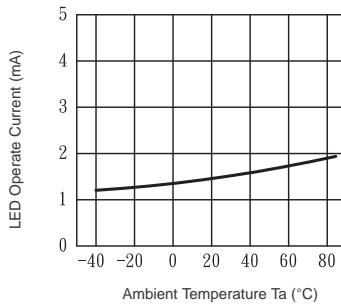


Fig.6 LED turn off current vs. ambient temperature
Load voltage 200V(DC)
Continuous load current: 180mA(DC)

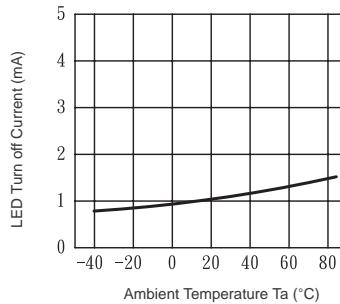


Fig.7 LED dropout voltage vs. ambient temperature
LED current: 5 to 50mA

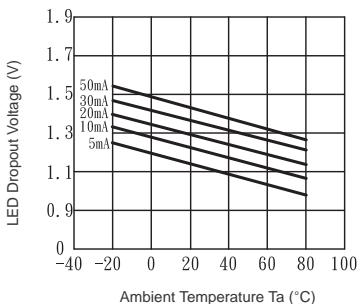


Fig.8 Voltage vs. current characteristics of output at MOS FET portion
Measured portion: across terminals 4 and 6 pin
Ambient temperature: 25°C

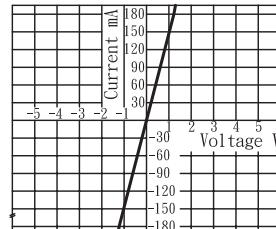


Fig.9 Off state leakage current
Across terminals 4 and 6 pin
Ambient temperature: 25°C

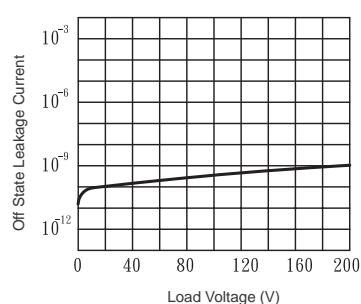


Fig.10 LED forward current vs. turn on time
Across terminals 4 and 6 pin;
Load voltage: 200V (DC);
Continuous load current: 180mA (DC);
Ambient temperature: 25°C

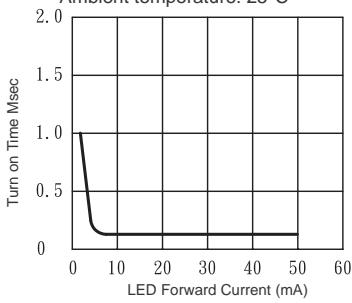


Fig.11 LED forward current vs. turn off time
Across terminals 4 and 6 pin;
Load voltage: 200V (DC);
Continuous load current: 180mA (DC);
Ambient temperature: 25°C

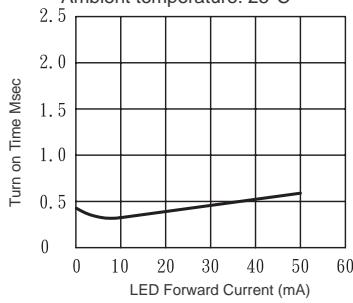


Fig.12 Applied voltage vs. output capacitance
Across terminals 4 and 6 pin
Frequency: 1MHz
Ambient temperature: 25°C

