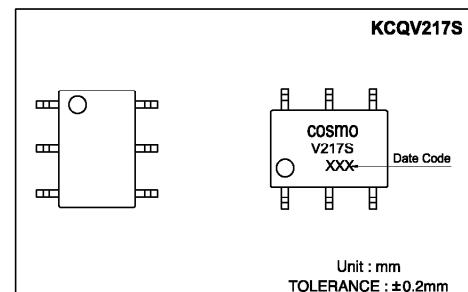


Features

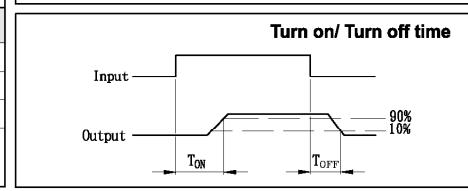
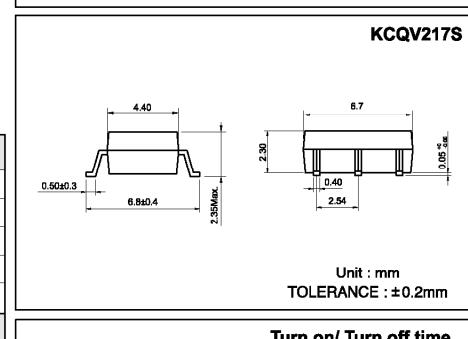
1. Normally Open, Single Pole Single Throw
2. Control 200VAC or DC Voltage
3. Switch 180mA Loads
4. LED control Current, 5mA
5. Low ON-Resistance
6. dv/dt, >500V/ms
7. Isolation Test Voltage, 1500VACrms

**Absolute Maximum Ratings**

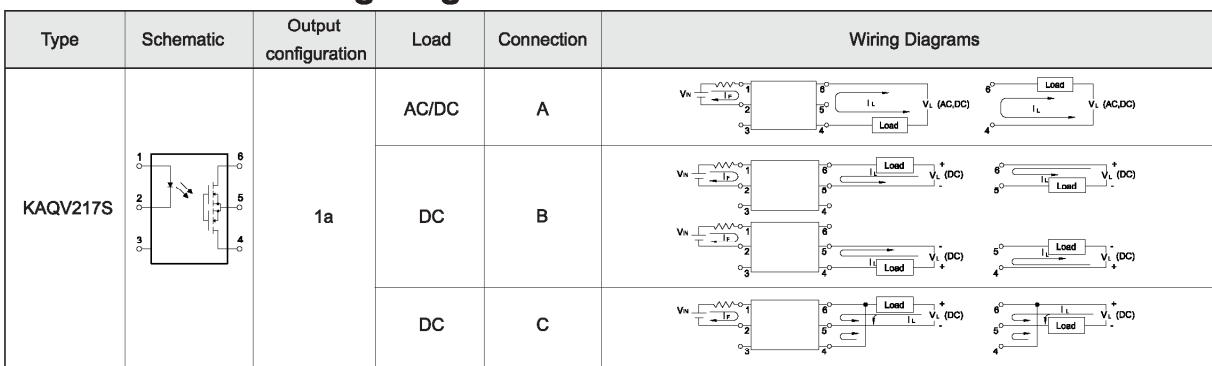
Emitter (Input)	Detector (Output)
Reverse Voltage.....	5.0V
Continuous Forward Current.....	50mA
Peak Forward Current.....	1A
Power Dissipation.....	75m W
Derate Linearly from 25°C.....	1.3mW/°C

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.....	$\geq 10^{10} \Omega$	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 _{I/O}	IF =0, f =1MHz		6		pF
ON Resistance	Connection	A		6	15	Ω
			IL =100mA, IF =10mA	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

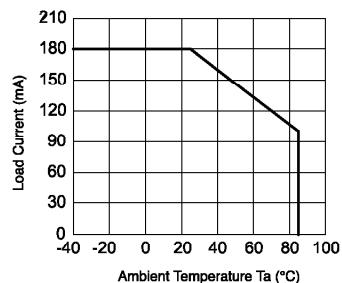


Fig.2 On resistance vs. ambient temperature
Across terminals 4 and 6 pin
LED current: 5mA
Continuous load current: 180mA(DC)

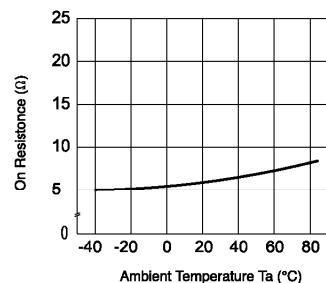


Fig.3 Turn on time vs. ambient temperature
Load voltage 200V(DC)
LED current: 5mA
Continuous load current: 180mA(DC)

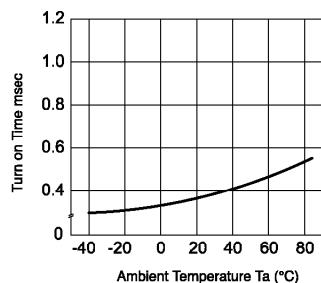


Fig.4 Turn off time vs. ambient temperature
LED current: 5mA; Load voltage:
200V(DC)
Continuous load current: 180mA(DC)

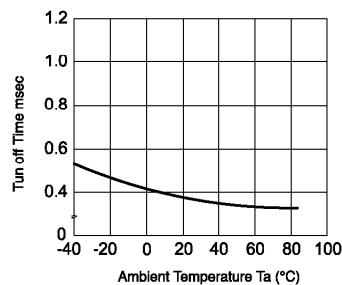


Fig.5 LED operate vs. ambient temperature
Load voltage 200V(DC)
Continuous load current: 180mA(DC)

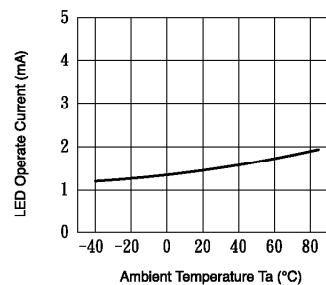


Fig.6 LED turn off current vs. ambient temperature
Load voltage 200V(DC)
Continuous load current: 180mA(DC)

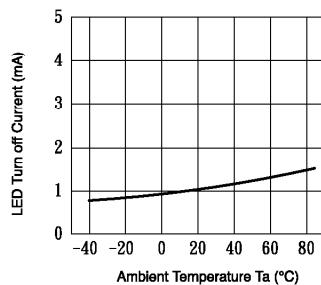


Fig.7 LED dropout voltage vs. ambient temperature
LED current: 5 to 50mA

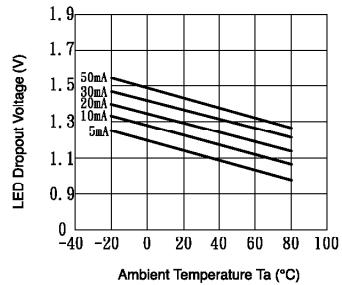


Fig.8 Voltage vs. current characteristics of output at MOS FET portion
Measured portion: across terminals 4 and 6 pin
Ambient temperature: 25°C

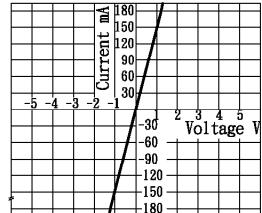


Fig.9 Off state leakage current
Across terminals 4 and 6 pin
Ambient temperature: 25°C

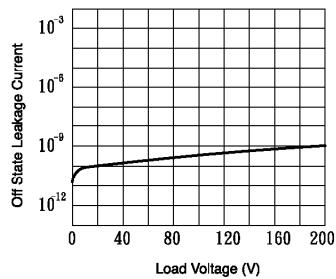


Fig.10 LED forward current vs. turn on time
Across terminals 4 and 6 pin;
Load voltage: 200V (DC);
Continuous load current: 180mA (DC);
Ambient temperature: 25°C

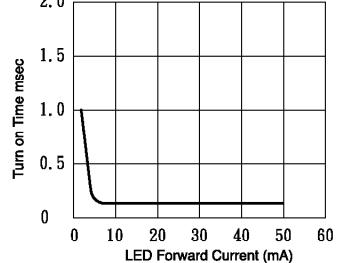


Fig.11 LED forward current vs. turn off time
Across terminals 4 and 6 pin;
Load voltage: 200V (DC);
Continuous load current: 180mA (DC);
Ambient temperature: 25°C

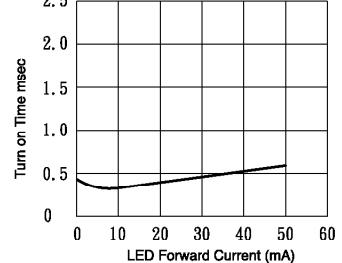


Fig.12 Applied voltage vs. output capacitance
Across terminals 4 and 6 pin
Frequency: 1MHz
Ambient temperature: 25°C

