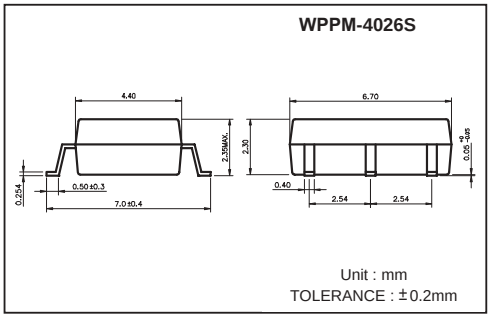
USR/CNR Listed (File # 223388)

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, 1500V_{RMS}.

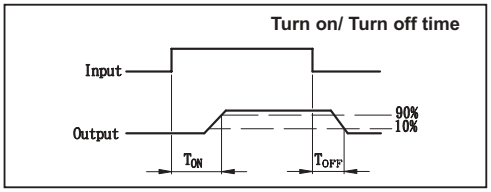


Part Numbering System & **Part Marking System:** Page 3 & 4.

Absolute Maximum Ratings

(Ta=25°C)

Emitter (Input)	Detector (Output)
Reverse Voltage.....5.0V	Output Breakdown Voltage .....±400V
Continuous Forward Current 50mA	Continuous Load Current .....±130mA
Peak Forward Current 1A	Power Dissipation 500mW
Power Dissipation 100mW	
Derate Linearly from 25°C .....1.3mW/°C	
General Characteristics	
Isolation Test Voltage.....1500V_{RMS}	Storage Temperature Range ...-40°C to +125°C
Isolation Resistance V_{IO} = 500V, T_A = 25°C ..... ≥$10^{10}\Omega$	Operating Temperature Range...-30°C to +85°C
	Junction Temperature.....100°C
Total Power Dissipation 550mW	Soldering Temperature,
Derate Linearly from 25°C .....2.5mW/°C	2mm from case, 10 sec .....260°C

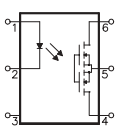
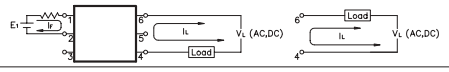
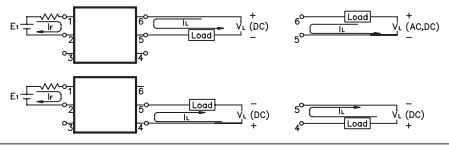
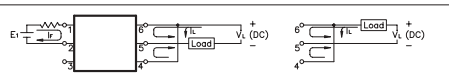


Electro-optical Characteristics

(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		pF
ON Resistance	Connection	A	R_{ON}	I_L =100mA, I_F =10mA		20	30	Ω
		B				10	15	
		C				5	7.5	
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

MOS Relay Schematic and Wiring Diagrams

Type	Schematic	Output configuration	Load	Connection	Wiring Diagrams
4026S		1a	AC/DC	A	
			DC	B	
			DC	C	

Data Curve

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

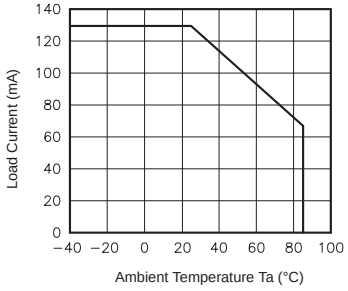


Fig.2 On resistance vs. ambient temperature
Across terminals 4 and 6 pin
LED current: 5mA
Continuous load current: 130mA(DC)

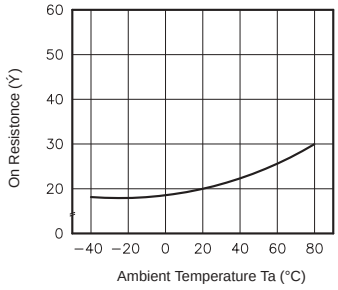


Fig.3 Turn on time vs. ambient temperature
Load voltage 400V(DC)
LED current: 5mA
Continuous load current: 130mA(DC)

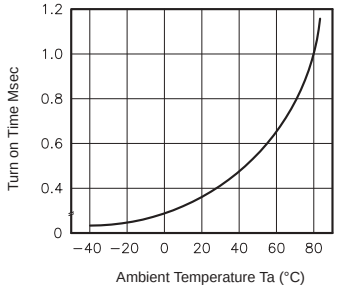


Fig.4 Turn off time vs. ambient temperature
LED current: 5mA; Load voltage: 400V(DC)
Continuous load current: 130mA(DC)

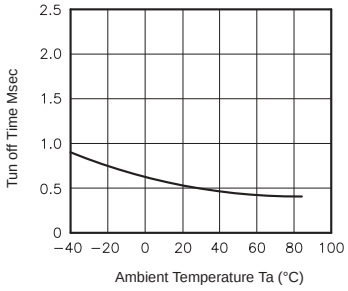


Fig.5 LED operate vs. ambient temperature
Load voltage 400V(DC)
Continuous load current: 130mA(DC)

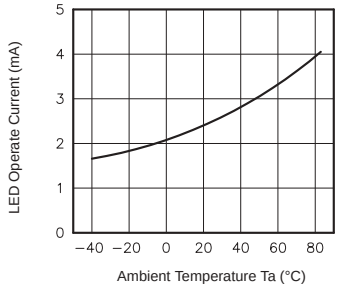


Fig.6 LED turn off current vs. ambient temperature
Load voltage 400V(DC)
Continuous load current: 130mA(DC)

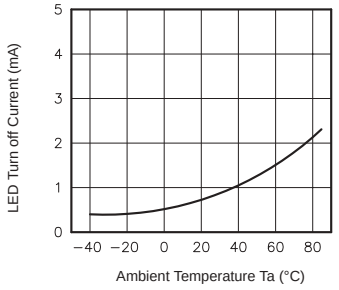


Fig.7 LED dropout voltage vs. ambient temperature
LED current: 5 to 50mA

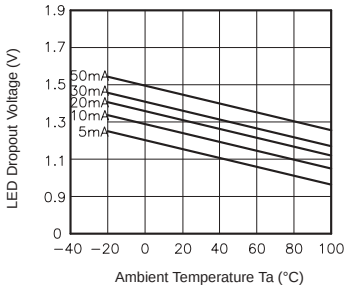


Fig.8 Voltage vs. current characteristics of output at MOS FET portion
Measured portion: across terminals 4 and 6 pin
Ambient temperature: 25°C

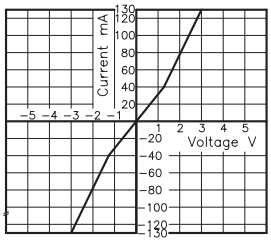


Fig.9 Off state leakage current
Across terminals 4 and 6 pin
Ambient temperature: 25°C

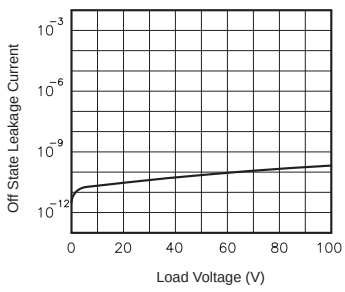


Fig.10 LED forward current vs. turn on time
Across terminals 4 and 6 pin;
Load voltage: 400V (DC);
Continuous load current: 130mA (DC);
Ambient temperature: 25°C

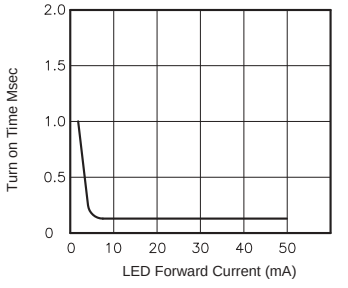


Fig.11 LED forward current vs. turn off time
Across terminals 4 and 6 pin;
Load voltage: 400V (DC);
Continuous load current: 130mA (DC);
Ambient temperature: 25°C

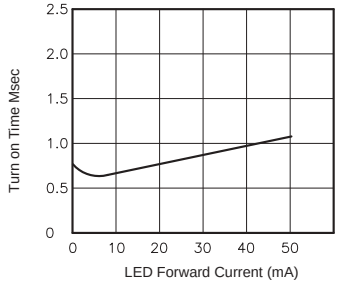


Fig.12 Applied voltage vs. output capacitance
Across terminals 4 and 6 pin
Frequency: 1MHz
Ambient temperature: 25°C