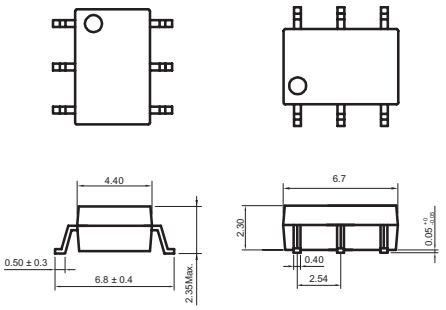
USR/CNR Listed (File# E223388)

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, 1500VRMS.
8. Package Type: SOP(shown)

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

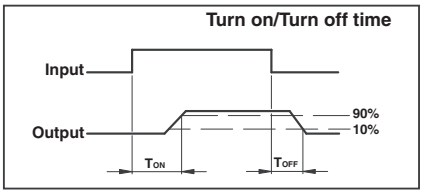
WPPM-0626S



Absolute Maximum Ratings

(Ta = 25°C)

Emitter (Input)	Detector(Output)
Reverse Voltage.....5.0V	Output Breakdown Voltage .....±60V
Continuous Forward Current 50mA	Continuous Load Current .....±400mA
Peak Forward Current 1A	Power Dissipation 500mW
Power Dissipation 100mW	
Derate Linearly from 25°C .....1.3mW/°C	
General Characteristics	
Isolation Test Voltage 1500VRMS	Storage Temperature Range ...-40°C to +150°C
Isolation Resistance,	Operating Temperature Range ..-40°C to +85°C
VIO = 500V, TA = 25°C.....>$10^{10}\Omega$	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

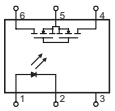
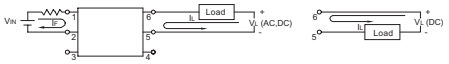
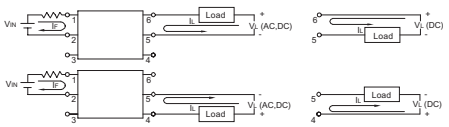
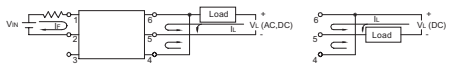


Electro-optical Characteristics

(Ta = 25°C)

Parameter			Symbol	Conditions	Min.	Typ.	Max.	Unit
Emitter (Input)								
Forward Voltage			VF	IF = 10mA	-	1.2	1.5	V
Operation Input Current			IFON	VL = ±20V, IL = 100mA, t = mS	-	-	5	mA
Recovery Input Current			IFOFF	VL = ±20V, IL = <5uA	0.2	-	-	mA
Detector(output)								
Output Breakdown Voltage			VB	IB = 50uA	60	-	-	V
Output Off-State Leakage			ITOFF	VT = 100V, IF = 0mA	-	0.2	1	uA
I/O Capacitance			CISO	IF = 0, f = 1MHz	-	0.8	-	pF
ON Resistance	Connection	A	RON	IL = 100mA, IF = 10mA	-	0.83	2.50	Ω
		B			-	0.44	1.25	
		C			-	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

MOS Relay Schematic and Wiring Diagrams

Type	Schematic	Output Configuration	Load	Connection	Wiring Diagrams
0626S		1a	AC/DC	A	
			DC	B	
			DC	C	

Data Curves

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

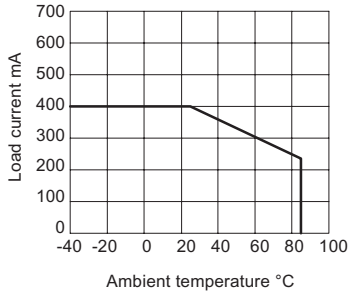


Fig. 2 On resistance vs. Ambient temperature
Across terminals 4 and 6 pin
LED current: 5mA
Continuous load current: 130mA (DC)

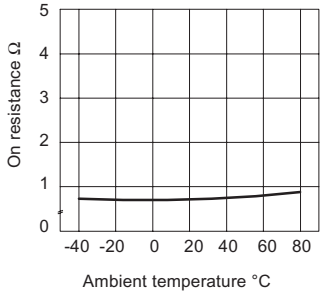


Fig.3 Turn on time vs. ambient temperature
Load voltage: 60V(DC)
LED current: 5mA
Continuous load curent: 130mA(DC)

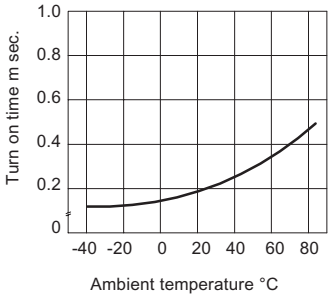


Fig. 4 Turn off time vs. ambient temperature
Load voltage: 60V(DC)
LED current: 5mA
Continuous load curent: 130mA(DC)

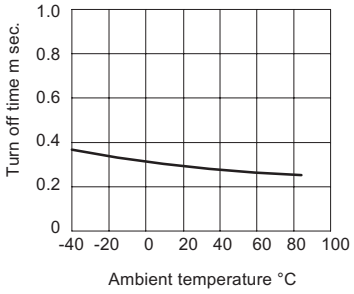


Fig. 5 LED operate vs. ambient temperature
Load voltage: 60V(DC)
Continuous load curent: 130mA(DC)

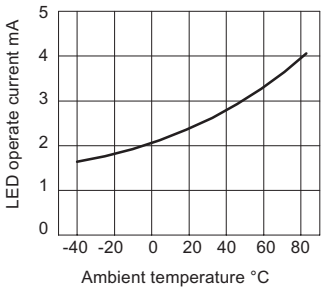


Fig. 6 LED turn off vs. ambient temperature
Load voltage: 60V(DC)
Continuous load curent: 130mA(DC)

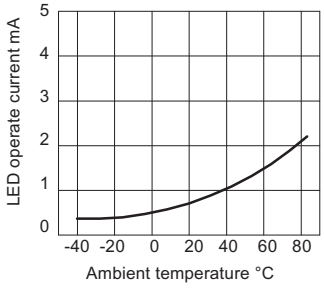


Fig. 7 LED dropout voltage vs. ambient temperature
LED current: 5 to 50mA

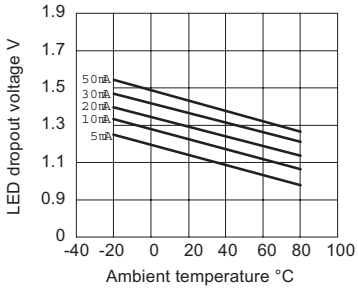


Fig. 8 Voltage vs. current characteristics of output MOSFET portion
Measured portion: Across terminals 4 and 6 pin
Ambient temperature: 25°C

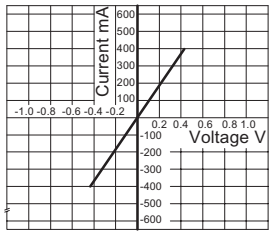


Fig. 9 LED forward current vs. turn on time
Across terminals 4 and 6 pin
Load voltage: 60V(DC)
Continuous load current: 130mA(DC)
Ambient temperature: 25°C

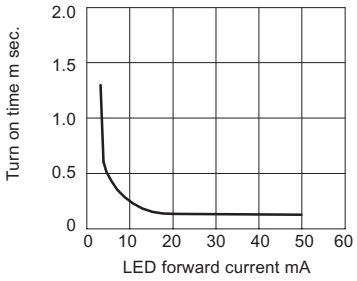


Fig. 10 Off-state leakage current
Across terminals 4 and 6 pin
Ambient temperature: 25°C

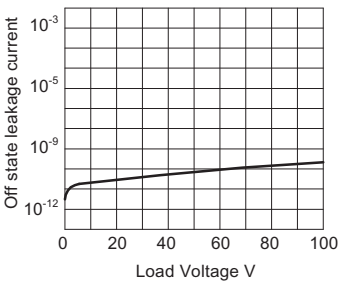


Fig. 11 LED forward current vs. turn off time
Across terminals 4 and 6 pin
Load voltage: 60V(DC)
Continuous load current: 130mA(DC)
Ambient temperature: 25°C

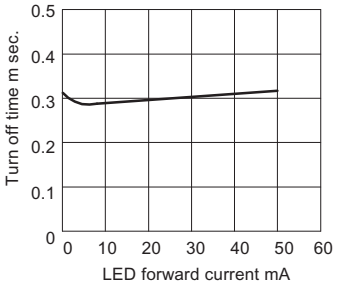


Fig. 12 Applied voltage vs. output capacitance
Across terminals 4 and 6 pin
Frequency: 1MHz
Ambient temperature: 25°C