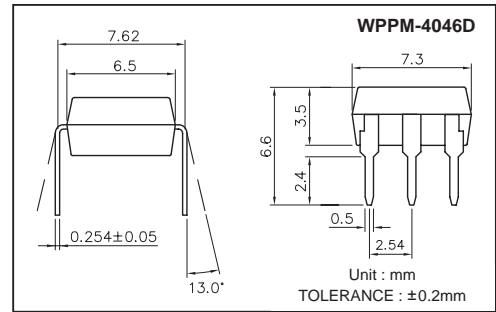


Features

1. Normally close, 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, 3750VRMS.

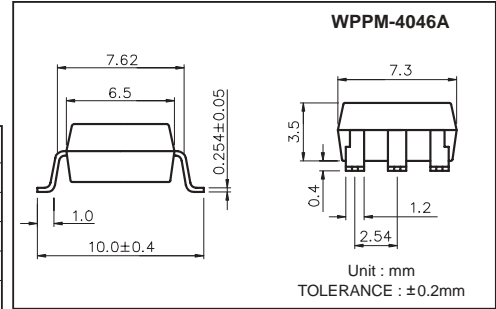


Part Numbering System & Part Marking System: Page 3 & 4.

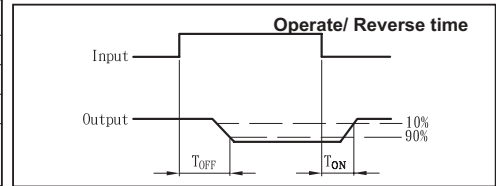
Absolute Maximum Ratings

(Ta=25°C)

Emitter (Input)	Detector (Output)
Reverse Voltage.....5.0V	Output Breakdown Voltage±400V
Continuous Forward Current50mA	Continuous Load Current±130mA
Peak Forward Current1A	Power Dissipation500mW
Power Dissipation100mW	
Derate Linearly from 25°C1.3mW/°C	



General Characteristics	
Isolation Test Voltage.....3750VRMS	Storage Temperature Range...-40°C to +125°C
Isolation Resistance VIO = 500V, TA = 25°C≥10 ¹⁰ Ω	Operating Temperature Range...-30°C to +85°C
Total Power Dissipation550mW	Junction Temperature.....100°C
Derate Linearly from 25°C2.5mW/°C	Soldering Temperature, 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	I _{OFF}	VL =±20V, IL ≤ 5µA			5	mA
Recovery Input Current	I _{FON}	VL =±20V, IL =100mA, t =10mS	0.2			mA
Detector (Output)						
Output Breakdown Voltage	VB	IB=50µA	400			V
Output Off-State Leakage	I _{TOFF}	V _T =100V, IF =10mA		0.2	2	µA
I/O Capacitance	CISO	IF =0, f =1MHz		6		pF
ON Resistance	Connection	A	IL =100mA, IF =10mA	40	50	Ω
		B		20	25	
		C		10	12.5	
Reverse (ON) Time	T _{ON}	IF =10mA, VL =±20V		0.6	1.5	mS
Operate (OFF) Time	T _{OFF}	t =10mS, IL =±100mA		0.3	1.0	mS

MOS Relay Schematic and Wiring Diagrams

Type	Schematic	Output configuration	Load	Connection	Wiring Diagrams
4046D & 4046A		1a	AC/DC	A	
			DC	B	
			DC	C	

Data Curve

