

## 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 3750V<sub>RMS</sub>.

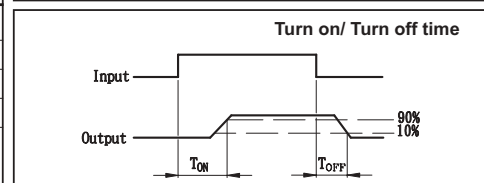
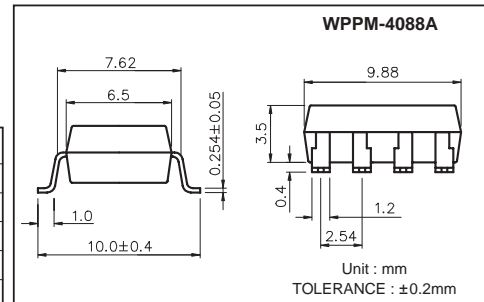
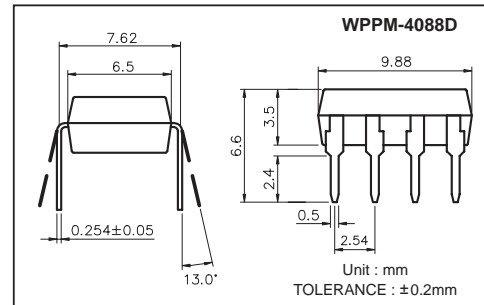
Part Numbering System & Part Marking System: Page 3 & 4.

## Absolute Maximum Ratings

( $T_a=25^\circ\text{C}$ )

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 .....3750V <sub>RMS</sub>	Storage Temperature Range ...-40°C to +125°C
Isolation Resistance	Operating Temperature Range...-30°C to +85°C
$V_{IO} = 500V, T_A = 25^\circ\text{C}$ ..... $\geq 10^{10}\Omega$	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

( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Emitter (Input)						
Forward Voltage	$V_F$	$I_F = 10\text{mA}$		1.2	1.5	V
Operation Input Current	$I_{FON}$	$V_L = \pm 20V, I_L = 100\text{mA}, t = 10\text{mS}$			5	mA
Recovery Input Current	$I_{FOFF}$	$V_L = \pm 20V, I_L \leq 5\mu\text{A}$	0.2			mA
Detector (Output)						
Output Breakdown Voltage	$V_B$	$I_B = 50\mu\text{A}$	400			V
Output Off-State Leakage	$I_{TOFF}$	$V_T = 100V, I_F = 0\text{mA}$		0.2	1	$\mu\text{A}$
I/O Capacitance	CISO	$I_F = 0, f = 1\text{MHz}$		6		pF
ON Resistance	$R_{ON}$	$I_L = 100\text{mA}, I_F = 10\text{mA}$		20	30	$\Omega$
Turn-On Time	$T_{ON}$	$I_F = 10\text{mA}, V_L = \pm 20V$		0.3	1.0	mS
Turn-Off Time	$T_{OFF}$	$t = 10\text{mS}, I_L = \pm 100\text{mA}$		0.7	1.5	mS

## MOS Relay Schematic and Wiring Diagrams

Type	Schematic	Output configuration	Load	Connection	Wiring Diagrams
4088D & 4088A		2a	AC/DC	-	<p>(1) Two independent 1 Form A use</p> <p>(2) 2 Form A use</p>

**Data Curve**

