



Features

1. Normally open, single pole single throw.
2. Control 350VAC 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.

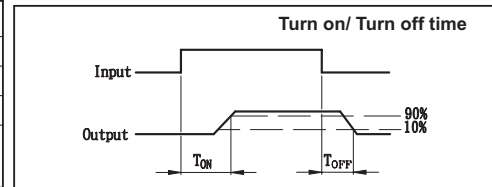
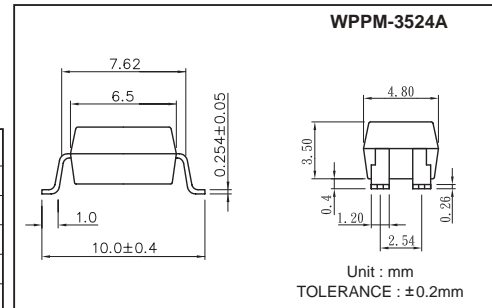
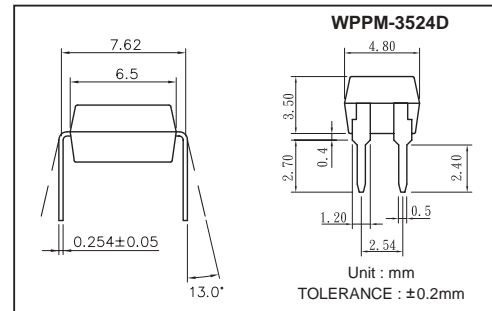
Absolute Maximum Ratings

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

Emitter (Input)	Detector (Output)
Reverse Voltage.....5.0V	Output Breakdown Voltage $\pm 350\text{V}$
Continuous Forward Current50mA	Continuous Load Current $\pm 130\text{mA}$
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	Operating Temperature Range...-30°C to +85°C
$V_{IO} = 500\text{V}$, $T_A = 25^\circ\text{C}$ $\geq 10^{10}\Omega$	Junction Temperature.....100°C
Total Power Dissipation550mW	Soldering Temperature,
Derate Linearly from 25°C2.5mW/°C	2mm from case, 10 sec260°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_{FOFF}	$V_L = \pm 20\text{V}$, $I_L \leq 5\mu\text{A}$			5	mA
Recovery Input Current	I_{FON}	$V_L = \pm 20\text{V}$, $I_L = 100\text{mA}$, $t = 10\text{mS}$	0.2			mA
Detector (Output)						
Output Breakdown Voltage	V_B	$I_B = 50\mu\text{A}$	350			V
Output Off-State Leakage	I_{TOFF}	$V_T = 100\text{V}$, $I_F = 0\text{mA}$		0.2	1	μA
I/O Capacitance	C_{ISO}	$I_F = 0$, $f = 1\text{MHz}$		6		pF
ON Resistance	R_{ON}	$I_L = 100\text{mA}$, $I_F = 0\text{mA}$		20	30	Ω
Turn-On Time	T_{ON}	$I_F = 10\text{mA}$, $V_L = \pm 20\text{V}$		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
3524D & 3524A		1a	AC/DC	-	

Data Curve

