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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NEC**4 PIN SOP SOLID STATE RELAY PS7200N-1A****FEATURES**

- **1 CHANNEL TYPE**
1a output
- **DESIGNED FOR AC/DC SWITCHING LINE CHANGER**
- **SMALL PACKAGE**
4 pin SOP
- **LOW OFFSET VOLTAGE**
- **AVAILABLE ON TAPE AND REEL**
PS7200N-1A-E3, E4, F3, F4

DESCRIPTION

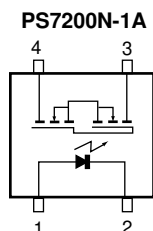
The PS7200N-1A is a 4 pin SOP solid state relay containing normally open (N.O.) contact on output side. It is suitable for analog signal control, due to its low offset and high linearity.

APPLICATIONS

- **MEASUREMENT EQUIPMENT**
- **FA/OA EQUIPMENT**

ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$)

		PART NUMBER	PS7200N-1A			
	SYMBOLS	PARAMETERS	UNITS	MIN	TYP	MAX
Diode	V _F	Forward Voltage, I _F = 10 mA	V		1.2	1.4
	I _R	Reverse Current, V _R = 5 V	μA			5
MOS FET	I _{LOFF}	Off-State Leakage Current, V _D = 40 V	nA			1
	C _{OUT}	Off-State Capacitance (MOSFET), V _D = 0 V, f = 1 MHz	pF		6	8
Coupled	R _{ON}	On-State Resistance (MOSFET), I _F = 10 mA, I _L = 10 mA	Ω		1.8	
	CR	R _{ON} x C _{OUT}	pF•Ω		11	
	t _{ON}	Turn-on Time, I _F = 10 mA, V _O = 5 V, PW ≥ 10 ms	ms		0.01	1.0
	t _{OFF}	Turn-off Time, I _F = 10 mA, V _O = 5 V, PW ≥ 10 ms	ms		0.5	1.0
	R _{I-O}	Isolation Resistance, V _{I-O} = 1.0 kV	Ω	10 ⁹		
	C _{I-O}	Isolation Capacitance, V = 0 V, f = 1 MHz	pF		0.4	



ABSOLUTE MAXIMUM RATINGS¹ (T_A = 25°C)

SYMBOLS	PARAMETERS	UNITS	RATINGS
Diode			
I _F	Forward Current (DC)	mA	50
V _R	Reverse Voltage	V	5
P _D	Power Dissipation	mW	50
I _{FP}	Peak Forward Current ²	A	1
MOSFET			
V _L	Break Down Voltage	V	40
I _L	Continuous Load Current	mA	250
P _D	Power Dissipation	mW	100
Coupled			
BV	Isolation Voltage ³	V	1500
P _T	Total Power Dissipation	mW	150
T _{OPR}	Operating Temperature	°C	-40 to +80
T _{STG}	Storage Temperature	°C	-40 to +100

Notes:

1. Operation in excess of any one of these parameters may result in permanent damage.
2. PW = 100µs, Duty Cycle = 1%.
3. AC voltage for 1 minute at T_A = 25°C, RH = 60% between input and output.

OUTLINE DIMENSIONS (Units in mm)

