



**THE DATASHEET OF
PS7200N-1A-A**



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

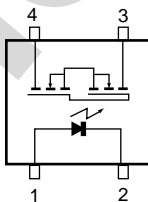
The PS7200N-1A is a 4 pin SOP solid state relay containing normally open (N.O.) contact on output side. It is suitable for analog signal control, due to its low offset and high linearity.

APPLICATIONS

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

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

		PART NUMBER	PS7200N-1A			
	SYMBOLS	PARAMETERS	UNITS	MIN	TYP	MAX
Diode	V_F	Forward Voltage, $I_F = 10\text{ mA}$	V		1.2	1.4
	I_R	Reverse Current, $V_R = 5\text{ V}$	μA			5
MOS FET	I_{LOFF}	Off-State Leakage Current, $V_D = 40\text{ V}$	nA			1
	C_{OUT}	Off-State Capacitance (MOSFET), $V_D = 0\text{ V}$, $f = 1\text{ MHz}$	pF		6	8
Coupled	R_{ON}	On-State Resistance (MOSFET), $I_F = 10\text{ mA}$, $I_L = 10\text{ mA}$	Ω		1.8	
	CR	$R_{\text{ON}} \times C_{\text{OUT}}$	$\text{pF} \cdot \Omega$		11	
	t_{ON}	Turn-on Time, $I_F = 10\text{ mA}$, $V_o = 5\text{ V}$, $PW \geq 10\text{ ms}$	ms		0.01	1.0
	t_{OFF}	Turn-off Time, $I_F = 10\text{ mA}$, $V_o = 5\text{ V}$, $PW \geq 10\text{ ms}$	ms		0.5	1.0
	$R_{\text{I-O}}$	Isolation Resistance, $V_{\text{I-O}} = 1.0\text{ kV}$	Ω	10^9		
	$C_{\text{I-O}}$	Isolation Capacitance, $V = 0\text{ V}$, $f = 1\text{ MHz}$	pF		0.4	

PS7200N-1A

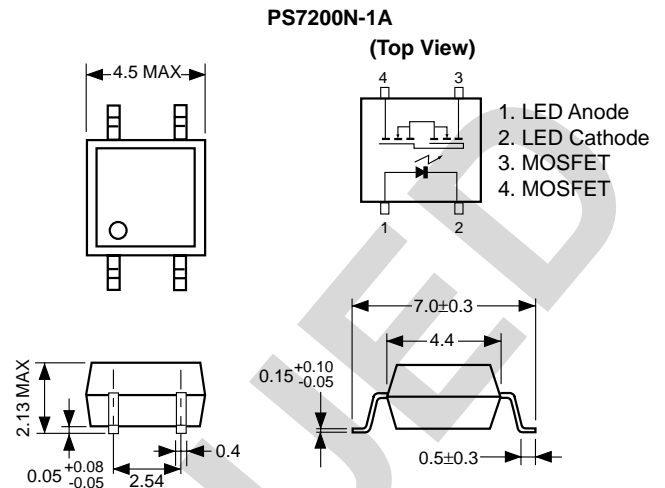
ABSOLUTE MAXIMUM RATINGS¹ (T_A = 25°C)

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)



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