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[CEL \(California Eastern Laboratories\)](#)
[PS7200N-1A-A](#)

For any questions, you can email us directly:

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PRELIMINARY DATA SHEET

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

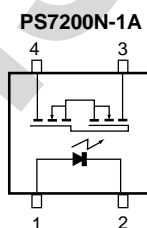
The PS7200N-1A is a 4 pin SOP solid state relay containing normally open (N.O.) contact on output side. It is suitable for analog signal control, due to its low offset and high linearity.

APPLICATIONS

- MEASUREMENT EQUIPMENT
- FA/OA EQUIPMENT

ELECTRICAL CHARACTERISTICS (TA = 25 °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	



PS7200N-1A

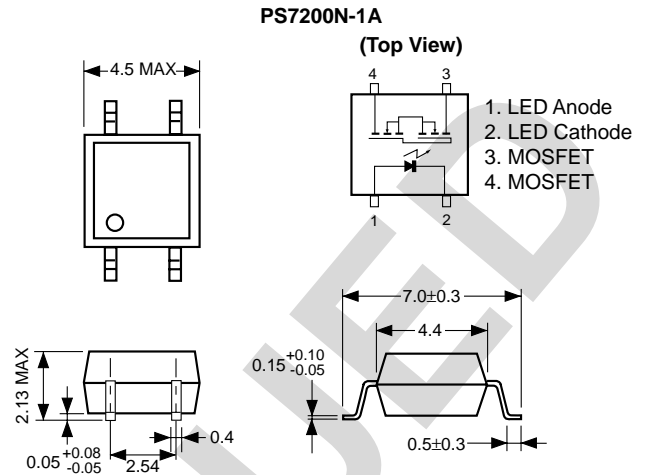
ABSOLUTE MAXIMUM RATINGS¹ (T_A = 25°C)

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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