

NEC

6-PIN DIP, 20 Ω LOW ON-STATE RESISTANCE 100 pF LOW OUTPUT CAPACITANCE 1-ch OPTICAL COUPLED MOS FET

PS7341A-1B
PS7341AL-1B

FEATURES

- **HIGH ISOLATION VOLTAGE**
BV = 3,750 Vr.m.s.
- **1 CHANNEL TYPE**
1 B output
- **DESIGNED FOR AC/DC SWITCHING LINE CHANGER**
- **SMALL PACKAGE**
6 pin DIP
- **LOW OUTPUT CAPACITANCE**
Cout = 100 pF TYP
- **LOW ON-STATE RESISTANCE**
Ron2 = 20 Ω TYP
- **LOW LED OPERATING CURRENT**
If = 2 mA
- **LOW OFFSET VOLTAGE**
- **SURFACE MOUNT TYPE LEAD AVAILABLE**
PS7341AL-1B

DESCRIPTION

The PS7341A-1B and PS7341AL-1B are solid state relays containing a GaAs LEDs on the light emitting side (input side) and normally close (N.C.) contact MOS FETs on the output side. They are suitable for analog signal control because of their low offset and high linearity.

APPLICATIONS

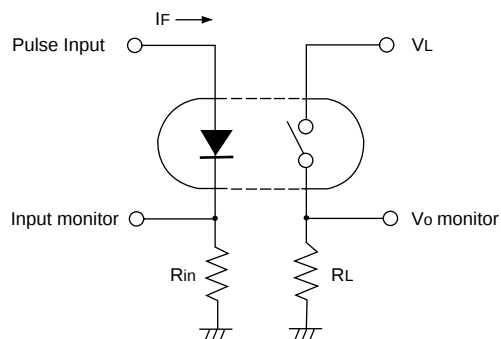
- EXCHANGE EQUIPMENT
- MEASUREMENT EQUIPMENT
- FA/OA EQUIPMENT

ELECTRICAL CHARACTERISTICS (TA = 25°C)

PART NUMBER				PS7341A-1B, PS7341AL-1B		
	SYMBOLS	PARAMETERS	UNITS	MIN	TYP	MAX
Diode	VF	Forward Voltage, IF = 10 mA	V		1.2	1.4
	IR	Reverse Current, VR = 5 V	μ A			5.0
MOS FET	ILOFF	Off-State Leakage Current, IF = 10 mA, VD = 400 V	μ A			10
	COUT	Output Capacitance, IF = 10 mA, VD = 0 V, f = 1 MHz	pF		100	
Coupled	RON1	On-State Resistance, IF = 0 mA, IL = 10 mA	Ω		26	35
	RON2	On-State Resistance, IF = 0 mA, IL = 120 mA, t $\leq$ 10 ms	Ω		20	30
	TON	Turn-On Time ¹	ms			0.2
	TOFF	Turn-Off Time ¹	ms			1.5
	RI-O	Isolation Resistance, VI-o = 1.0 kVdc	Ω	10 ⁹		
	CI-O	Isolation Capacitance, V = 0 V, f = 1 MHz	pF		1.1	

Notes:

1. Test Circuit for switching Time



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