SRC DEVICES

PRMA1A05

PRMA - 1 Form A Relay

DESCRIPTION

The PRMA relay is part of SRC Devices' epoxy molded DIP 14 Series, which offers a variety of contacts and schematics to meet the needs of a wide range of applications. It is a relay package that allows for automatic insertion directly on PCBs as well as insertion into standard 14 pin DIP sockets.

FEATURES

- Stable contact resistance over life
- 4000 Vac input-output isolation
- High insulation resistance
- Long life > 1 billion operation
- Epoxy molded for automatic board processing
- RoHS Compliant Pb

APPLICATIONS

- Automatic test equipment
- Process control
- Industrial
- Telecom
- Datacom
- High-end security systems
- Signaling
- Metering

SPECIFICATIONS

Parameters	Conditions	Min	Typ	Max	Units
Coil Specifications					
Nominal Coil Voltage			5		Volts
Coil Resistance	+/-10%, 25°C	450	500	550	Ohms
Operate Voltage	Must operate by 25°C			3.75	Volts
Release Voltage	Must release by 25°C	0.8			Volts
Contact Ratings					
Switching Voltage	Max DC/Peak AC Resistive			200	Volts
Switching Current	Max DC/Peak AC Resistive			0.5	Amps
Carry Current	Max DC/Peak AC Resistive			1.5	Amps
Contact Rating	Max DC/Peak AC Resistive			10	Watts
Life Expectancy	Signal Level 1.0V, 10mA	300	500		x 10^6 Ops
Static Contact Resistance	50mV, 10mA			150	mOhms
Dynamic Contact Resistance	0.5V, 50mA at 100Hz,1.5msec			N/A	mOhms
Contact Material			Ru		
Relay Specifications					
Insulation Resistance	Between all isolated pins at 100V, 25°C, 40%RH	10^{10}			Ohms
Capacitance Across Open Contacts	Coil Floating		0.7	1	pF
Open Contact to Coil Capacitance			1.5	2	pF
Dielectric Strength	Between Contacts	250			VDC/Peak AC
	Contacts to Coil	1400			VDC/Peak AC
Operate Time, including bounce	At Nominal Coil Voltage 30Hz Square Wave		0.25	0.5	msec
Release Time	Zener-Diode Suppression		0.25	0.5	msec
Enviromental Ratings					
Storage Temperature		-40		+105	°C
Operating Temperature		-40		+80	°C
Soldering Temperature	Applied to pins, 5sec. max			+260	°C
Vibration Resistance[1] (survival)	10Hz - 500Hz			20	Gs
Shock Resistance (survival)	11+/- 1ms, 1/2 Sine Wave			100	Gs
Weight			1.5		grams

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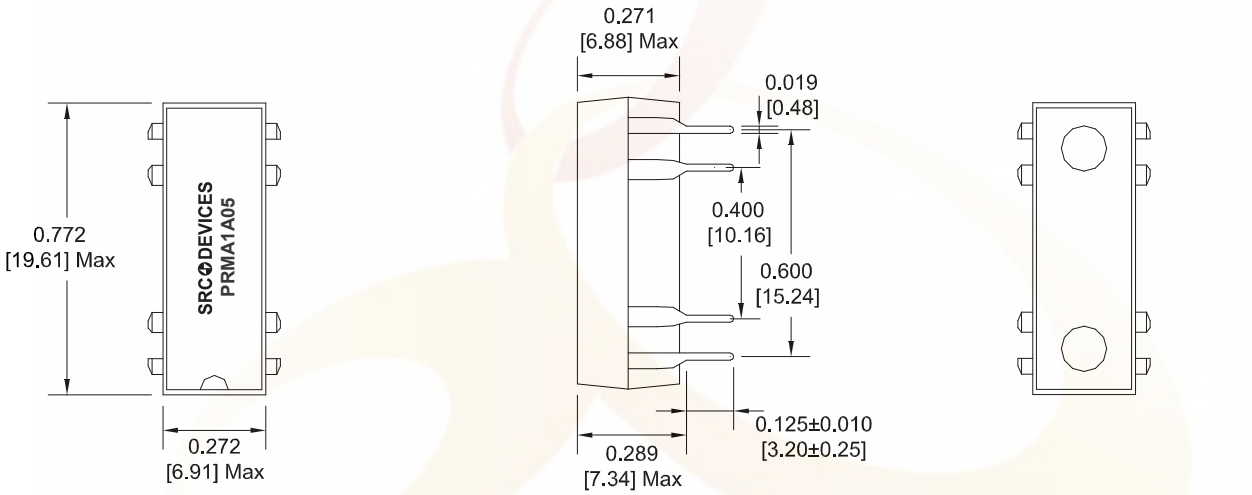
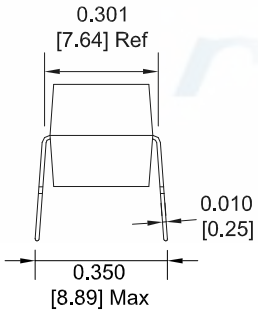
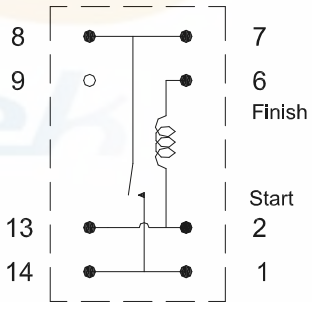
MECHANICAL DIMENSIONS

Dimensions in inches [mm]







WIRING DIAGRAM
TOP VIEW