9007 SERIES/SPARTAN SIP REED RELAYS

9007 Series Economy SIP Reed Relays

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9007 Spartan Series is a general purpose economy version of the 9001 for applications with less stringent requirements. These relays are well suited for applications in Security, Instrumentation and Modems. The specification tables allow you to select the appropriate relay for your application.

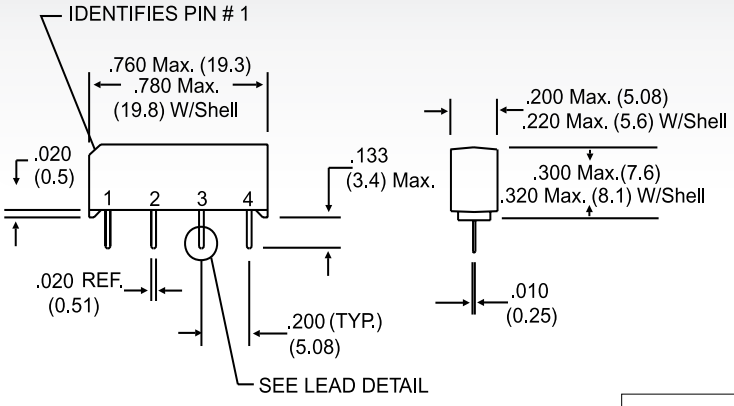
9007 Series Features

- Hermetically sealed contacts for long life
- High dielectric strength available, consult factory
- High speed switching compared to electromechanical relays
- Molded thermoset body on integral lead frame design
- Optional Coil Suppression Diode - protects coil drive circuits
- UL File #E67117, CSA File #028537 - Contact factory for details
- RoHS compliant

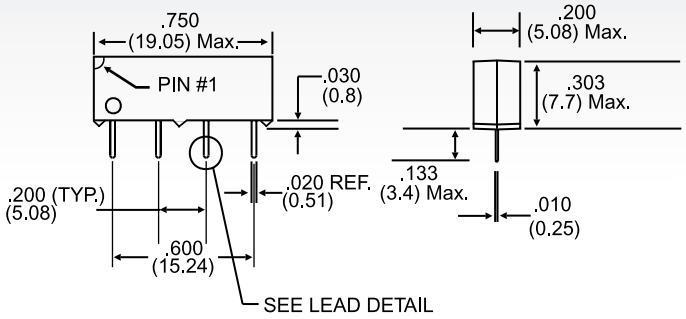
DIMENSIONS

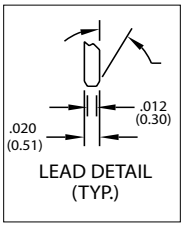
in Inches (Millimeters)

Model 9007



Model 9007 Alternate Package





Ordering Information

Part Number **9007-XX-XX**

Model Number
9007

Coil Voltage
05=5 volts 12=12 volts
24 = 24 volts

Magnetic Shield Option
0= No Shield
1= Shield (External)
4= High-Sensitivity Coil w/Mag. Shield (5V & 12V only)
5 =High-Sensitivity Coil w/o Mag. Shield (12V only)

General Options
0=No Diode
1=Diode[2]

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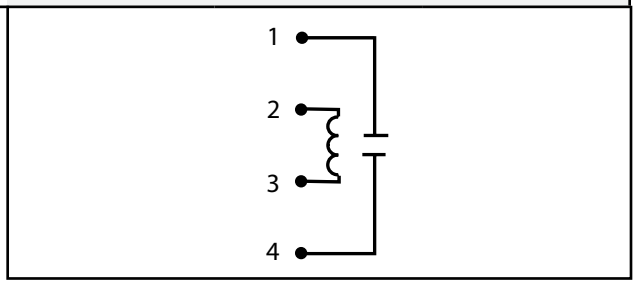
MODEL NUMBER			9007[2]		
Parameters	**Test Conditions**	**Units**	**.2**	**-.2**	**-.2**
COIL SPECS.					
Nom. Coil Voltage		VDC	5	12	24
Max. Coil Voltage		VDC	6.5	15.0	32.0
Coil Resistance	+/- 10%, 25° C	Ω	500	1000	2000
Coil Resistance (hi-sensitivity)		Ω	1000	2000	----
Operate Voltage	Must Operate by	VDC - Max.	3.75	9.0	18.0
Release Voltage	Must Release by	VDC - Min.	0.4	1.0	2.0
CONTACT RATINGS					
Switching Voltage	Max DC/Peak AC Resist.	Volts	200		
Switching Current	Max DC/Peak AC Resist.	Amps	0.5		
Carry Current	Max DC/Peak AC Resist.	Amps	1.0		
Contact Rating	Max DC/Peak AC Resist.	Watts	10		
Life Expectancy-Typical[1]	Signal Level 1.0V, 10mA	x 10^6 Ops.	100		
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.200		
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	N/A		
RELAY SPECIFICATIONS					
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10^{10}		
Capacitance - Typical Across Open Contacts	No Shield Shield Floating Shield Guarding	pF pF pF	0.7 - -		
Open Contact to Coil	No Shield Shield Floating Shield Guarding	pF pF pF	1.4 - -		
Contact to Shield	Contacts Open, Shield Floating	pF	-		
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	250 - 1500		
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.50		
Release Time - Typical		msec.	0.20		

Top View:
Grid = .1"x.1" (2.54mm x 2.54mm)



Notes:

[1] Consult factory for life expectancy at other switching loads.

[2] Optional diode is connected to pin #2(+) and pin #3(-). Correct coil polarity must be observed.

Environmental Ratings:

Storage Temp: -35°C to +100°C; *Operating Temp:* -20°C to +85°C; *Solder Temp:* 270°C max; 10 sec. max
All electrical parameters measured at 25°C unless otherwise specified.
Vibration: 20 G's to 2000 Hz; *Shock:* 50 G's

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