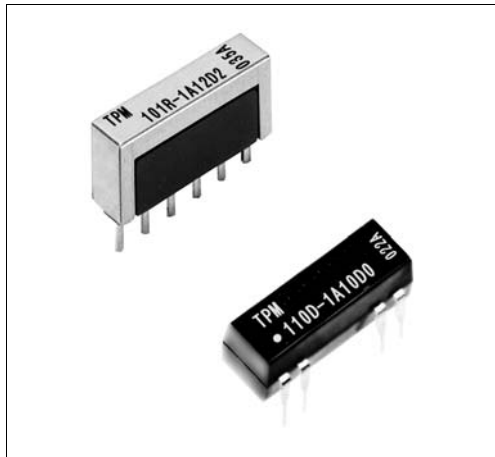


SIP,DIP Reed Relays

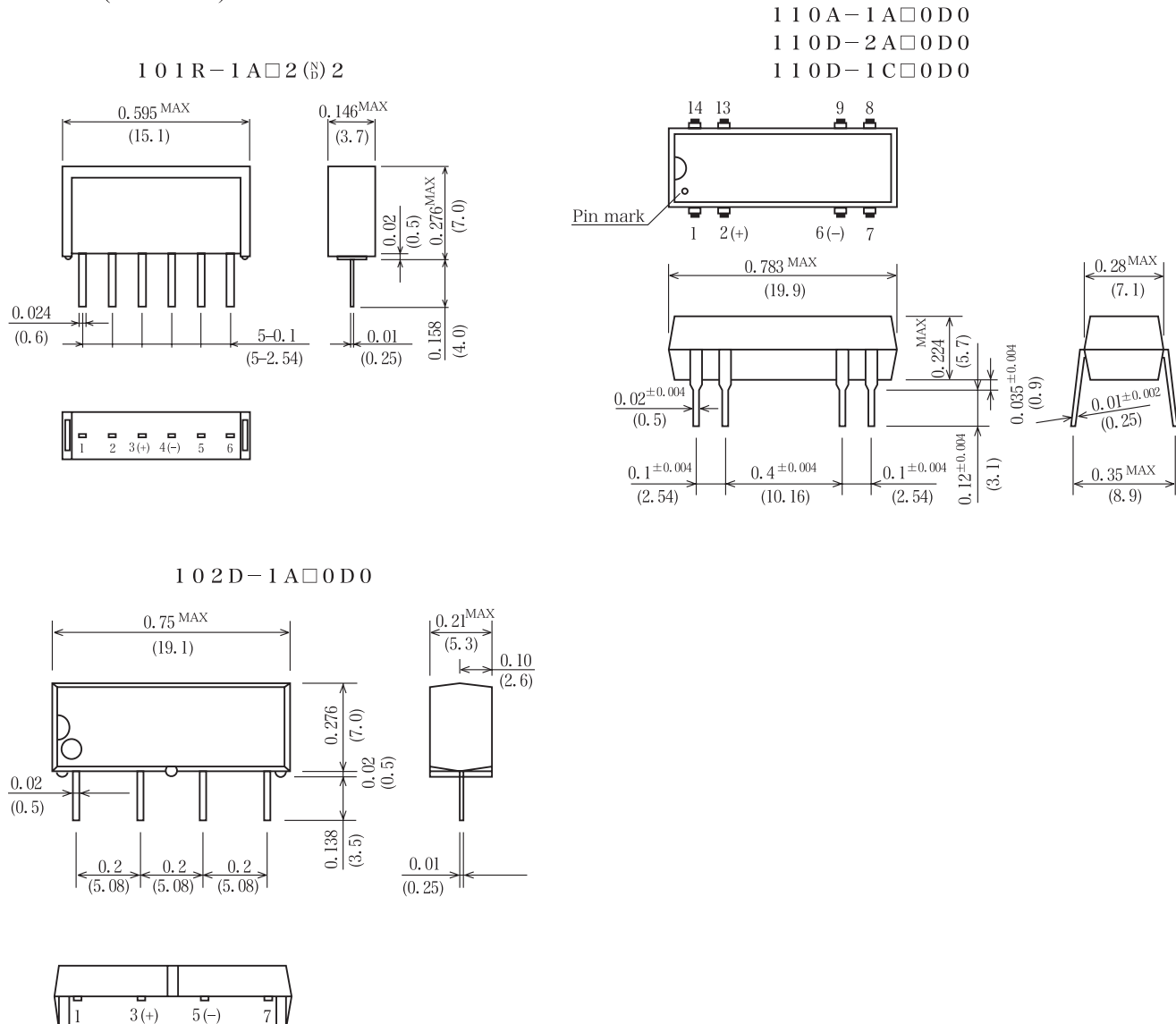


The 100 Series is the standard series for SIP and DIP relays. This product line comes in 1 Form A, 2 form A and 1 form C arrangements.

- Standard SIP and DIP relays IC pitches
- Internal lead-frame design
- High speed operating
- High reliability and long life
- Electric magnetic shield available

Mechanical Dimensions

All dimensions are measured
in inches (millimeters).





101R,102D,110D Series			SIP				DIP												
			Model Number		Model Number		Model Number		Model Number		Model Number								
			101R-1A□2□2		102D-1A□0D0		110D-1A□0D0		110D-2A□0D0		110D-1C□0D0								
Parameters		Test Condition	Units		1 Form A		1 Form A		1Form A		2 Form A		1 Form C						
Coil Specs																			
Nominal coil voltage			VDC	5	12	5	12	5	12	24	5	12	24	5	12	24			
Coil resistance		±10% at20°C	Ω	375	600	500	1000	500	1000	2150	140	500	2150	200	500	2150			
Operating voltage		15°C~35°C	VDC Max	4.0	9.6	3.75	9.0	3.75	9.6	19.2	3.75	9.6	18.0	3.75	9.6	18.0			
Release voltage		15°C~35°C	VDC Min	0.7	1.2	0.8	1.0	0.7	1.2	2.4	0.7	1.2	2.4	0.7	1.2	2.4			
Contact Ratings																			
Switching voltage		Max. DC/Peak AC resistance	Volts	200				100				30							
Switching current		Max. DC/Peak AC resistance	Amps	0.5				0.5				0.2							
Carry current		Max. DC/Peak AC resistance	Amps	1.2				1.0				0.5							
Contact rating		Max. DC/Peak AC resistance	Watts	10				10				3							
Life expectancy		1V. 10mA	×10 ⁶ Cyc	1500				1000				50							
Contact resistance		Maximum initial	mΩ	150				150				150							
Contact resistance stability		Maximum initial	mΩ	5.0				5.0				5.0							
Relay Specifications																			
Insulation resistance		Between all isolated pins at 100V 20°C 40%RH	Ω	10 ¹²				10 ¹⁰				10 ¹⁰							
Capacitance			pF-Max																
Across open contacts		Shield guarding																	
Contact to Shield		Contacts open, Shield floating																	
Open contact to coil		Shield guarding																	
Dielectric strength		Between contacts	VDC	200				200				200							
		Contacts to shield, coil		250				500				500							
Operating time (Including. bounce)		At nominal coil voltage, 100Hz Square wave	msec	0.5				1.0				1.0							
Release time		Diode suppression	msec	0.5				1.0				1.0							
Environmental Ratings			Schematics Top view																
Measurement reference conditons																			
Temp. : 15°C~35°C Humidity : 25%~85%RH																			
Atmospheric pressure : 860~1060hPa																			
Storage temp. : -40°C~+80°C																			
Operating temp : -20°C~+60°C																			
The operating and Release Voltage and the coil resistance are specified at 20°C. These values change approximately 0.4%/°C change in the ambient temperature.																			
Vibration : 20Gs to 2000Hz																			
Shock : 50Gs																			

Notes :

- Values are specified with a resistive load being applied. A contact protective circuit is required for C and L Type loads.
- The values of the operating time and release time however, are when the rated coil voltage is applied and a clamp diode is attached.
- Model 101R-1A□2D2 : Diode is connected to pin 3 (+) and pin 4 (-).
Model 102D-1A□0D0 : Diode is connected to pin 3 (+) and pin 5 (-).
Model 110D Type : Diode is connected to pin 2 (+) and pin 6 (-).
Correct coil polarity must be followed.

ORDERING CODE

1 0 1 R - 1 A □ 2 □ 2
(3) (4)

1 0 2 D - 1 A □ 0 D 0
(3)

1 1 0 D - □ □ 0 D 0
(1) (2) (3)

Example 101R-1A12D2 Represents Series 101R with 1Form A, Dry Reed (Ruthenium), Coil Voltage 5V, Coaxial Shield, Magnetic Shield and with Diode.

- | | |
|--|---|
| (1) Number of capsule
1-1 capsule
2-2 capsules | (3) Coil Voltage
1-5VDC
2-12VDC
3-24VDC (101R, 102D N/A) |
| (2) Contact Form
A-Form A
C-Form C | (4) Diode Options
N-No Diode
D-With Diode |