New

104E-1A Series

SIP

PRODUCT DESCRIPTIONS

The 104E-1A 1 Form A series is the smallest SIP reed relay with the highest contact rate in this package size. Magnetic shield is a standard feature in both the standard and built-in Diode versions of this product for demanding high-density requirements. This miniature SIP series is suitable for ATE, measurement equipment, and telecommunication applications which require high density and higher reliability standards.

- 10W contact rate / 100VDC switching
- 10.16mm x 3.81mm mounting area
- Standard Magnetic Shield
- Built-in Diode Option

SPECIFICATIONS

RoHS COMPLIANT

104E-1A Series		104E-1A□0D2		104E-1A□0N2		SIP
parameters	Units	1 Form A				Test Conditions
Coil Specifications						
Nominal Coil Voltage	VDC	5.0	12.0	5.0	12.0	
Coil Resistance	Ω	250	800	250	800	±10%@20°C
Operate Voltage	VDC Max	3.75	8.8	3.75	8.8	@20°C
Release Voltage	VDC Min	0.7	1.2	0.7	1.2	@20°C
Contact Ratings						
Switching Voltage	Volts	100				MAX DC/Peak AC resistance
Switching Current	Amps	0.5				MAX DC/Peak AC resistance
Carry Current	Amps	1.0				MAX DC/Peak AC resistance (@30°C)
Contact Rating	Watts	10				MAX DC/Peak AC resistance
Life Expectancy	x10^6 Cycle	300				@1V 10mA
Contact Resistance	mΩ	200				MAX initial@operate voltage
Contact Resistance Stability	mΩ	5.0				MAX initial@operate voltage
Relay Specifications						
Insulation Resistance	Ω-Min	10^{12}				Between All isolated Pins @100V20°C40%RH
Dielectric Strength	VDC Min	250				Between contacts
	VDC Min	1500				Contacts to Coil
Operate Time (Including Bounce)	msec-Max	0.35				@nominal coil voltage 100Hz square wave
Release Time	msec-Max	0.25				Diode suppression
Environmental Ratings						
Measurement Reference Conditions Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa		Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's				

Ordering code:

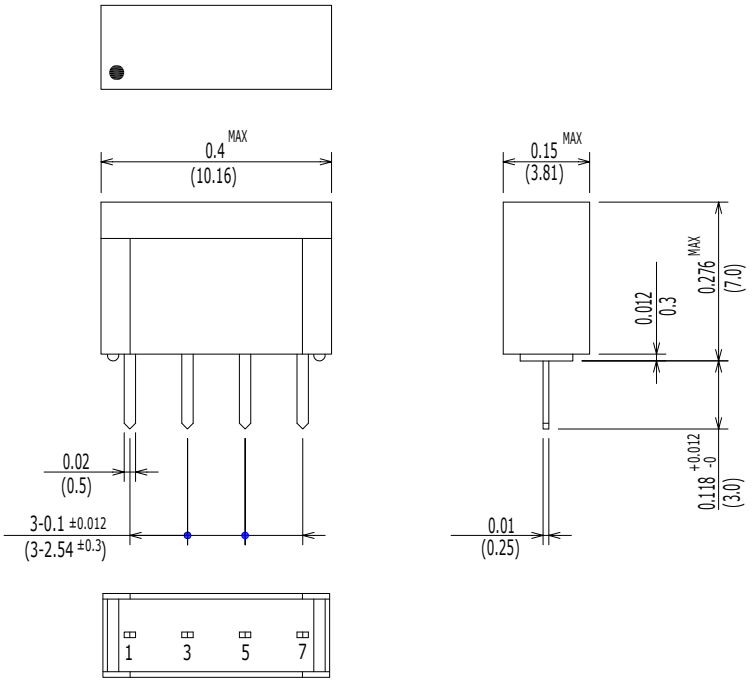
104E-1A□0D2 (Diode)
□=1 (5.0VDC), 2 (12.0VDC)

104E-1A□0N2
□=1 (5.0VDC), 2 (12.0VDC)

Dimensions

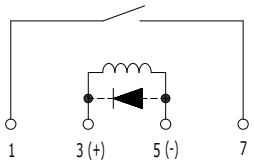
All Dimensions are inches (mm)

104E-1A□0D2/104E-1A□0N2



Schematic <Top View>

104E-1A□0D2



104E-1A□0N2