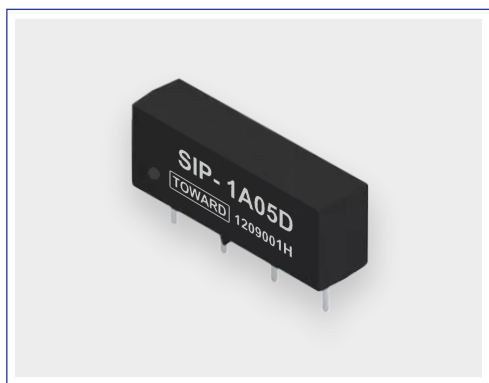




SIP SERIES

ULTRA-SMALL SIP REED RELAY



KEY FEATURES

- Epoxy molded, 4pin single-in-line packages
- Can be immersed during board cleaning operations
- High isolation between input and output
- High density board mounting
- Diode and magnetic shield available
- UL recognized

ORDER CODE

SIP-XXXXXX

(a) (b) (c) (d) (e)

- (a) Contact Form: 1A = 1 Form A, 1B = 1 Form B
- (b) Nominal Coil Voltage: 05 = 5V, 12 = 12V, 24 = 24V
- (c) Nil = Standard Type, D = Diode, S = Magnetic Shield, N = Diode+Magnetic Shield
- (d) Special Code: Nil = Standard Type, U = High-Sensitivity Type
- (e) Special Code: Nil = Standard Type, Y or C = ATE Grade

COIL DATA-STANDARD TYPE 1 Form A (at 20°C)

NOMINAL VOLTAGE DC $\pm 10\%$ [V]	COIL RESISTANCE $\pm 10\%$ [Ω]	NOMINAL INPUT POWER	MAX. OPERATE VOLTAGE [V]	MIN. RELEASE VOLTAGE [V]	MAX. ALLOWABLE VOLTAGE [V]
	STANDARD HIGH - SENSITIVITY				
05	500	50mW	3.75	0.6	10
	1000	25mW			
12	1000	144mW	9	1	20
	2000	72mW			
24	2000	288mW	18	2	32

COIL DATA-STANDARD TYPE 1 Form B (at 20°C)

NOMINAL VOLTAGE DC $\pm 10\%$ [V]	COIL RESISTANCE $\pm 10\%$ [Ω]	NOMINAL INPUT POWER	MAX. OPERATE VOLTAGE [V]	MIN. RELEASE VOLTAGE [V]	MAX. ALLOWABLE VOLTAGE [V]
5	500	50mW	3.75	0.6	6
12	1000	144mW	9	1	14.5
24	2150	268mW	18	2	29

CONTACT SPECIFICATIONS (at 20°C)

ITEM	PERFORMANCE CHARACTERISTICS					
Relay Model	SIP		SIP-Y		SIP-C	
Contact Form	1 Form A	1 Form B	1 Form A	1 Form B	1 Form A	1 Form B
Max. Switching Power	10W		10W		10W (5V) 15W (12V)	10W
Max. Switching Voltage	100VDC or Peak AC		100VDC or Peak AC		200VDC or 140AC	
Max. Switching Current	0.5A		0.5A		0.5A	
Max. Carry Current	1.0A		1.0A		1.75A	
Contact Resistance	150mΩ		150mΩ		150mΩ	
Dielectric Strength	Between Contacts		200VDC		250VDC	
	Coil to Contacts		1500VDC		1500VDC	

ELECTRICAL SPECIFICATIONS

ITEM	PERFORMANCE CHARACTERISTICS		
Relay Model	SIP	SIP-Y	SIP-C
Operate Time (Incl. bounce)	1.0mS	1.0mS	1.0mS
Release Time	0.5mS	0.5mS	0.5mS
Insulation Resistance	10 ¹⁰ Ω (100VDC)	10 ¹⁰ Ω (100VDC)	10 ¹⁰ Ω (100VDC)
Capacitance (between open contacts)	1.0pF	0.3pF	1.4pF

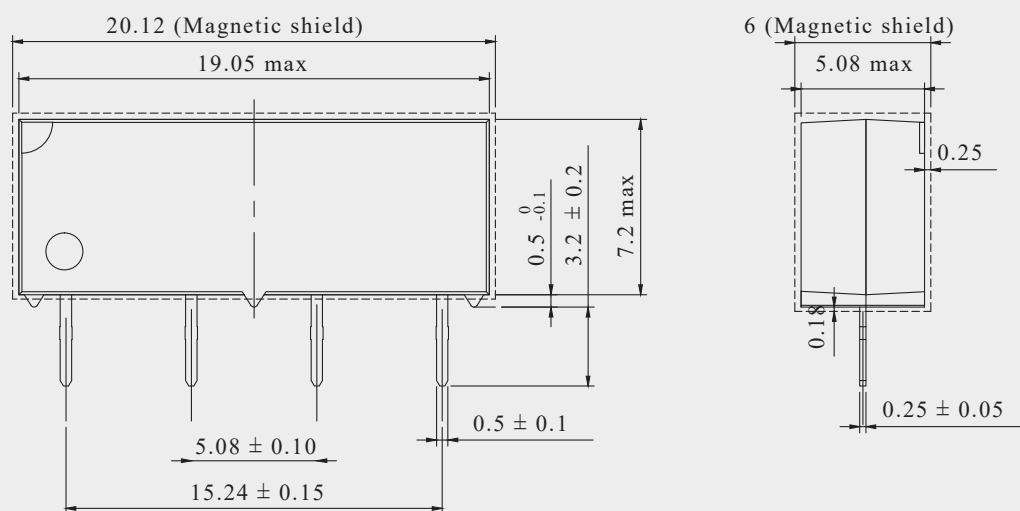
MECHANICAL SPECIFICATIONS

Relay Model	SIP	SIP-Y	SIP-C
Vibration	20G (10-2KHz)	20G (10-2KHz)	20G (10-2KHz)
Shock	30G (11mS 1/2 Sin Wave)	30G (11mS 1/2 Sin Wave)	30G (11mS 1/2 Sin Wave)

ENVIRONMENTAL

Relay Model	SIP	SIP-Y	SIP-C
Operating Temp.	-40°C~+80°C	-40°C~+80°C	-40°C~+80°C
Life Expectance	1X10 ⁸ Ops. (10VDC, 10mA)	5X10 ⁷ Ops. (10VDC, 10mA) 1X10 ⁸ Ops. (5VDC, 100mA)	1X10 ⁹ Ops. (1.0VDC, 10mA)

DIMENSIONS (Unit: mm)



WIRING DIAGRAMS (Top View)

