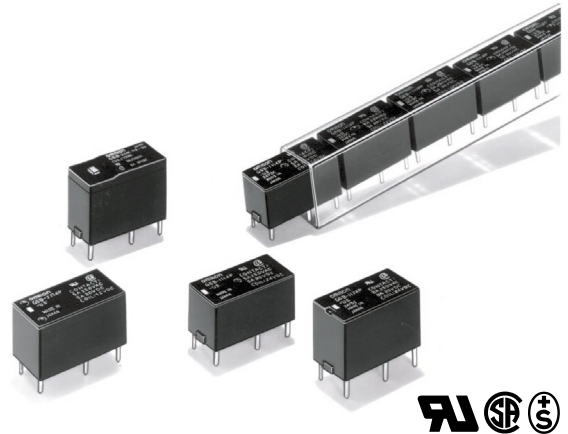


Subminiature Relay that Switches up to 5 A

- Subminiature: 20 × 10 × 10 mm (L × W × H).
- Low power consumption: 200 mW.
- Unique moving loop armature reduces relay size, magnetic interference, and contact bounce time.
- Single- and double-winding latching types also available.



Ordering Information

Classification	Contact form	Straight PCB	Self-clinching PCB
Single-side stable	SPST-NO	G6B-1114P-US	G6B-1114C-US
	SPST-NO+SPST-NC	G6B-2114P-US	G6B-2114C-US
	DPST-NO	G6B-2214P-US	G6B-2214C-US
	DPST-NC	G6B-2014P-US	G6B-2014C-US
Single-winding latching	SPST-NO	G6BU-1114P-US	G6BU-1114C-US
Double-winding latching	SPST-NO	G6BK-1114P-US	G6BK-1114C-US
High-capacity single-side stable	SPST-NO	G6B-1174P-US	G6B-1174C-US

Note: When ordering, add the rated coil voltage to the model number.

Example: G6B-1114P-US 12 VDC

Rated coil voltage

Model Number Legend

G6B - - VDC
 1 2 3 4 5 6 7

1. Relay Function

- None: Single-side stable
- U: Single-winding latching
- K: Double-winding latching

2. Contact Form

- 21: SPST-NO + SPST-NC
- 22: DPST-NO
- 20: DPST-NC
- 11: SPST-NO

3. Contact Type

- 1: Standard
- 7: High-capacity

4. Enclosure Ratings

- 4: Fully sealed

5. Terminals

- P: Straight PCB
- C: Self-clinching PCB

6. Approved Standards

- US: UL/CSA certified

7. Rated Coil Voltage

- 5, 6, 12, 24 VDC

■ Accessories (Order Separately)

Back Connecting Sockets

Applicable relay	Back connecting socket*
G6B(U)-1114P-US	P6B-04P
G6BK-1114P-US	P6B-06P
G6B-2□□4P-US-P6B	P6B-26P
G6B-1174P-US	P6B-04P

*Not applicable to the self-clinching type.

Removal Tool	P6B-Y1
Hold-down Clips	P6B-C2

Specifications

■ Coil Ratings

Single-side Stable Type

Item	SPST-NO					SPST-NO + SPST-NC, DPST-NO, DPST-NC				
	3	5	6	12	24	3	5	6	12	24
Rated voltage (VDC)	3	5	6	12	24	3	5	6	12	24
Rated current (mA)	67	40	33.3	16.7	8.3	100	60	50	25	12.5
Coil resistance (Ω)	45	125	180	720	2,880	30	83.3	120	480	1,920
Coil inductance (H) (ref. value)	Armature OFF	0.20	0.28	0.31	1.2	4.9	---	---	---	---
	Armature ON	0.18	0.26	0.28	1.1	4.1	---	---	---	---
Must operate voltage	70% max. of rated voltage					80% max. of rated voltage				
Must release voltage	10% min. of rated voltage									
Max. voltage	160% of rated voltage (at 23°C)					140% of rated voltage (at 23°C)				
Power consumption	Approx. 200 mW					Approx. 300 mW				

Single-winding Latching Type

Rated voltage	3 VDC	5 VDC	6 VDC	12 VDC	24 VDC
Rated current	67 mA	40 mA	33.3 mA	16.7 mA	8.3 mA
Coil resistance	45 Ω	125 Ω	180 Ω	720 Ω	2,880 Ω
Coil inductance (H) (ref. value)	Armature OFF	0.20	0.28	0.31	1.2
	Armature ON	0.18	0.26	0.28	1.1
Must operate voltage	70% max. of rated voltage				
Must release voltage	70% min. of rated voltage				
Max. voltage	160% of rated voltage (at 23°C)				
Power consumption	Approx. 200 mW				

Double-winding Latching Type

Rated voltage	3 VDC	5 VDC	6 VDC	12 VDC	24 VDC	
Set coil	Rated current	93.2 mA	56 mA	46.8 mA	23.3 mA	
	Coil resistance	32.2 Ω	89.2 Ω	128.5 Ω	515 Ω	
	Coil inductance (H) (ref. value)	Armature OFF	0.11	0.15	0.18	0.52
		Armature ON	0.11	0.15	0.18	0.52
Reset coil	Rated current	93.2 mA	56 mA	46.8 mA	23.3 mA	
	Coil resistance	32.2 Ω	89.2 Ω	128.5 Ω	515 Ω	
	Coil inductance (H) (ref. value)	Armature OFF	0.11	0.15	0.18	0.52
		Armature ON	0.11	0.15	0.18	0.52
Must set voltage	70% max. of rated voltage					
Must reset voltage	70% min. of rated voltage					
Max. voltage	130% of rated voltage (at 23°C)					
Power consumption	Set coil: Approx. 280 mW Reset coil: Approx. 280 mW					

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
2. Operating characteristics are measured at a coil temperature of 23°C.