

OMRON Low Signal Relays

OMRON G5A SERIES: SMALL 1A DPDT LOW SIGNAL RELAYS

Features:

- Omron's unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time.
- Low power consumption
- Bifurcated crossbar assures highly reliable switching of loads as low as 10mVDC, 0.1mA

Specifications:

- Contact resistance: 50mΩ max.
- Contact material: Ag (Au clad)
- Power consumption: 200mW



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr.	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
Sealed Construction									
653-G5A-234P-DC5	G5A-234P-DC5	A1	40 mA	5	125	4.34	3.86	3.40	3.06
653-G5A-234P-DC12	G5A-234P-DC12	A1	16.7 mA	12	720	4.34	3.86	3.40	3.06
653-G5A-234P-DC24	G5A-234P-DC24	A1	8.3 mA	24	2880	4.34	3.86	3.40	3.06
Vented Construction									
653-G5A-237P-DC5	G5A-237P-DC5	A1	40 mA	5	125	3.97	3.56	3.14	2.83
653-G5A-237P-DC12	G5A-237P-DC12	A1	16.7 mA	12	720	3.97	3.56	3.14	2.83
653-G5A-237P-DC24	G5A-237P-DC24	A1	8.3 mA	24	2880	4.09	3.66	3.23	2.91

OMRON G5V-1 SERIES: SMALL 1A SPDT LOW SIGNAL RELAYS

Features:

- Ideal for use in telecommunications, security, and computer/peripheral equipment
- Conforms to FCC part 68 voltage surge
- Fully sealed construction

Specifications:

- Contact resistance: 100mΩ max.
- Contact material: Ag (Au clad)
- Power consumption: 150mW



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr.	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
653-G5V-1-DC5	G5V-1-DC5	B2	30 mA	5	166.7	2.54	2.03	1.79	1.61
653-G5V-1-DC12	G5V-1-DC12	B2	12.5 mA	12	960	2.54	2.03	1.79	1.61
653-G5V-1-DC24	G5V-1-DC24	B2	6.3 mA	24	3840	2.54	2.03	1.79	1.61

OMRON G5V-2 SERIES: GENERAL USAGE 2A DPDT LOW SIGNAL RELAYS

Features:

- Ideal for use in telecommunications, security, and computer/peripheral equipment
- Conforms to FCC part 68 voltage surge
- Fully sealed construction
- Conforms to FCC part 68 voltage surge

Specifications:

- Contact resistance: 50mΩ max.
- Power consumption: Standard type - 500 mW; High-Sensitivity type - 360 mW; Ultra-sensitive type - 150 mW



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr.	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
Standard Type									
653-G5V-2-DC5	G5V-2-DC5	C3	100 mA	5	50	3.13	2.50	2.21	1.99
653-G5V-2-DC12	G5V-2-DC12	C3	41.7 mA	12	288	3.13	2.50	2.21	1.99
653-G5V-2-DC24	G5V-2-DC24	C3	20.8 mA	24	1152	3.13	2.50	2.21	1.99
High-Sensitivity Type									
653-G5V-2-H-DC5	G5V-2-H-DC5	C3	72 mA	5	70	3.36	2.68	2.37	2.13
653-G5V-2-H-DC12	G5V-2-H-DC12	C3	30 mA	12	400	3.36	2.68	2.37	2.13
653-G5V-2-H-DC24	G5V-2-H-DC24	C3	15 mA	24	1600	3.36	2.68	2.37	2.13
Ultra-Sensitive Type									
653-G5V-2-H1-DC5	G5V-2-H1-DC5	C3	30 mA	5	166.7	3.45	2.76	2.43	2.19
653-G5V-2-H1-DC12	G5V-2-H1-DC12	C3	12.5 mA	12	960	3.45	2.76	2.43	2.19
653-G5V-2-H1-DC24	G5V-2-H1-DC24	C3	8.3 mA	24	2880	3.45	2.76	2.43	2.19

OMRON G6A SERIES: HIGH SENSITIVITY 3A LOW SIGNAL RELAYS



Features:

- Unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time.
- High sensitivity allowing for digital circuitry control
- Due to low magnetic leakage, units can be mounted side by side.
- Low profile design allows use in 12.70mm PC board rack
- Conforms to FCC part 68 voltage surge

Specifications:

- Contact form: G6A-234P, G6A-274P and G6AK-234P - DPDT; G6A-434P - 4PDT
- Contact material: G6A-234P and G6A-434P AgPd (Au clad); G6A-274P Ag(Au clad)
- Power consumption: DPDT non-latching coil - 200 mW; 4PDT non-latching coil - 360 mW; DPDT latching dual coil - 180mW

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr.	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
DPDT Standard Non-Latching Coil									
653-G6A-234P-DC5	G6A-234P-ST-US-DC5	D4	40 mA	5	125	4.63	4.08	3.65	3.22
653-G6A-234P-DC12	G6A-234P-ST-US-CD12	D4	16.7 mA	12	720	4.63	4.08	3.65	3.22
653-G6A-234P-DC24	G6A-234P-ST-US-DC24	D4	8.3 mA	24	2880	4.63	4.08	3.65	3.22
653-G6A-274P-DC5	G6A-274P-ST-US-DC5	D4	40 mA	5	125	4.63	4.08	3.65	3.22
653-G6A-274P-DC12	G6A-274P-ST-US-DC12	D4	16.7 mA	12	720	4.63	4.08	3.65	3.22
653-G6A-274P-DC24	G6A-274P-ST-US-DC24	D4	8.3 mA	24	2880	4.63	4.08	3.65	3.22
4PDT Standard Non-Latching Coil									
653-G6A-434P-DC5	G6A-434P-ST-US-DC5	E6	72.5 mA	5	69	10.02	8.90	7.85	7.07
653-G6A-434P-DC12	G6A-434P-ST-US-DC12	E6	30 mA	12	400	10.02	8.90	7.85	7.07
653-G6A-434P-DC24	G6A-434P-ST-US-DC24	E6	15 mA	24	1600	10.02	8.90	7.85	7.07
DPDT Standard Latching Dual Coil									
653-G6AK-234P-DC5	G6AK-234P-ST-US-DC5	D5	36 mA	5	139	5.81	5.16	4.55	4.10
653-G6AK-234P-DC12	G6AK-234P-ST-US-DC12	D5	15 mA	12	800	5.81	5.16	4.55	4.10
653-G6AK-234P-DC24	G6AK-234P-ST-US-DC24	D5	7.5 mA	24	3200	5.81	5.16	4.55	4.10

Catalog #616, Nov - Jan 2004
© Copyright 2003 Mouser Electronics

DIMENSIONS (mm)

A

B

C

D

E

TERMINAL ARRANGEMENT

1

2

3

4

5

6

Omron
Low Signal Relays