

# OMRON Basic Switches



## OMRON D2MV SERIES: ULTRA-LOW LOAD, MINIATURE BASIC SWITCHES

### Specifications:

- Contact resistance: D2MV-01 - 50mW max.; D2MV-1 - 30mW max.
- Terminal type: Solder/QC #187
- Contact material: D2MV-01 - gold alloy; D2MV-1 - silver

### Features:

- Twin crossbar contact for exceptionally high contact reliability in micro load applications



MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Contact Rating	Operating Force (max.)	Price Each			
						1	25	50	100
653-D2MV-01-1C1	D2MV-01-1C1	A	Pin plunger	0.1A @ 30VDC	10 gf	5.37	5.03	4.81	4.47
653-D2MV-01-1C3	D2MV-01-1C3	A	Pin plunger	0.1A @ 30VDC	50 gf	5.98	5.60	5.36	4.98
653-D2MV-01L111-1C3	D2MV-01L111-1C3	A	Long hinge lever	0.1A @ 30VDC	15 gf	3.97	3.36	3.03	2.99
653-D2MV-01L22-1C3	D2MV-01L22-1C3	A	Short hinge roller lever	0.1A @ 30VDC	50 gf	4.47	4.07	3.73	3.44

For quantities greater than listed, call for quote.

## OMRON D2MC SERIES: LOW-TORQUE, ROTARY-ACTION BASIC SWITCHES

### Specifications:

- Contact resistance: 20Ω max.
- Contact material: Silver alloy
- Terminal type: Quick-connect #205

### Features:

- Highly reliable rotary-action switch for low torque operation
- Long life - 10,000 operations



MOUSER STOCK NO.	Omron Part No.	Fig.	Direction of Actuation	Contact Rating	Operating Torque (max.)	Price Each			
						1	25	50	100
653-D2MC-5E	D2MC-5E	B	Clockwise	5A @ 250VAC	5.1 gf · cm	9.53	8.66	7.94	7.33
653-D2MC-5F	D2MC-5F	B	Clockwise	5A @ 250VAC	7.6 gf · cm	10.28	9.35	8.57	7.91
653-D2MC-5H	D2MC-5H	B	Clockwise	5A @ 250VAC	10.2 gf · cm	9.69	8.82	8.08	7.46
653-D2MC-5EL	D2MC-5EL	B	Counterclockwise	5A @ 250VAC	5.1 gf · cm	8.93	8.13	7.45	6.87
653-CAA1M	CAA1M	C		Actuator lever		1.29	1.18	1.12	1.07

For quantities greater than listed, call for quote.

## OMRON V SERIES: MINIATURE, GENERAL PURPOSE BASIC SWITCHES

### Specifications:

- Contact resistance: 15mΩ max.
- Insulation resistance: 100MΩ min. (@500VDC)
- Contact form: SPDT
- Mounting hole size: 3.1mm, (2.9mm for -K)

### Features:

- Switch housing is a thermoset case, giving high versatility



MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Contact Rating @ 250VAC	Contact Gap (mm)	Operating Force (max.)	Terminals	Price Each			
								1	25	50	100
653-V10G1C24	V-10G-1C24-K	D	Pin plunger	10A	0.5	100 gf	QC #187	2.15	2.05	1.97	1.78
653-V-10-1A5	V-10-1A5	D	Pin plunger	10A	1.0	200 gf	Solder	2.60	2.37	2.17	2.01
653-V10G21C24	V-10G2-1C24-K	D	Hinge lever	10A	0.5	100 gf	QC #187	1.89	1.85	1.78	1.75
653-V-10G2-1C25-K	V-10G2-1C25-K	D	Hinge lever	10A	0.5	200 gf	QC #187	2.86	2.44	2.28	2.21
653-V-10G3-1C25-K	V-10G3-1C25-K	D	Long hinge lever	10A	0.5	200 gf	QC #187	2.93	2.85	2.75	2.54
653-V-10G4-1C24-K	V-10G4-1C24-K	D	Simulated roller lever	10A	0.5	100 gf	QC #187	2.21	2.05	1.99	1.90
653-V-10G4-1C25-K	V-10G4-1C25-K	D	Simulated roller lever	10A	0.5	200 gf	QC #187	3.00	2.64	2.48	2.31
653-V-10G5-1C24-K	V-10G5-1C24-K	D	Short hinge roller lever	10A	0.5	100 gf	QC #187	2.81	2.72	2.51	2.38
653-V10G51C25	V-10G5-1C25-K	D	Short hinge roller lever	10A	0.5	200 gf	QC #187	1.99	1.91	1.85	1.74
653-V-10G6-1C24-K	V-10G6-1C24-K	D	Hinge roller lever	10A	0.5	100 gf	QC #187	2.58	2.46	2.38	2.24
653-V15A5	V-15-1A5	D	Pin plunger	15A	1.0	200 gf	Solder	4.57	4.17	3.82	3.52
653-V-15G-3C25-K	V-15G-3C25-K	D	Pin plunger	15A	0.5	200 gf	QC #187	2.32	2.11	1.94	1.79
653-V15G1C25	V-15G-1C25-K	D	Pin plunger	15A	0.5	200 gf	QC #187	2.10	1.97	1.84	1.65
653-V-15-1C25	V-15-1C25	D	Pin plunger	15A	1.0	200 gf	QC #187	2.58	2.29	2.16	1.99
653-V-15G-1C5-K	V-15G-1C5-K	D	Pin plunger	15A	0.5	200 gf	QC #250	2.51	2.30	2.04	1.83
653-V15C6K	V-15-3C6-K	D	Pin plunger	15A	1.0	400 gf	QC #250	4.25	3.78	3.31	2.87
653-V15G2C26K	V-15G-2C26-K	D	Pin plunger	15A	0.5	400 gf	QC #187	2.59	2.36	2.17	2.00
653-V-15-2C26-K	V-15-2C26-K	D	Pin plunger	15A	1.0	400 gf	QC #187	2.38	2.17	1.99	1.84
653-V15A6	V-15-1A6	D	Pin plunger	15A	1.0	400 gf	Solder	4.31	3.93	3.60	3.32
653-V-15-1B6	V-15-1B6	D	Pin plunger	15A	1.0	400 gf	Screw	4.64	4.23	3.87	3.58
653-V15G1C26	V-15G-1C26-K	D	Pin plunger	15A	0.5	400 gf	QC #187	2.33	2.25	2.16	1.94
653-V15G21C25	V-15G2-1C25-K	D	Hinge lever	15A	0.5	200 gf	QC #187	2.21	1.99	1.87	1.68
653-V15G21C26	V-15G2-1C26-K	D	Hinge lever	15A	0.5	400 gf	QC #187	2.09	2.00	1.87	1.68
653-V-15G3-1C24-K	V-15G3-1C24-K	D	Long hinge lever	15A	0.5	100 gf	QC #187	2.58	2.36	2.10	2.01
653-V-153-1A5	V-153-1A5	D	Long hinge lever	15A	1.0	200 gf	Solder	3.04	2.53	2.45	2.34
653-V15G31C25	V-15G3-1C25-K	D	Long hinge lever	15A	0.5	200 gf	QC #187	2.01	1.92	1.79	1.62
653-V15G31C26	V-15G3-1C26-K	D	Long hinge lever	15A	0.5	400 gf	QC #187	2.49	2.29	2.10	1.89
653-V15G41C25	V-15G4-1C25-K	D	Simulated roller lever	15A	0.5	200 gf	QC #187	1.94	1.89	1.79	1.64
653-V-155-1A5-T	V-155-1A5-T	D	Short hinge roller lever	15A	1.0	200 gf	Solder	4.62	4.38	4.03	3.67
653-V15G51C25	V-15G5-1C25-K	D	Short hinge roller lever	15A	0.5	200 gf	QC #187	2.34	2.25	2.11	2.03
653-V-155-1C5	V-155-1C5	D	Short hinge roller lever	15A	1.0	200 gf	QC #250	3.59	3.27	3.00	2.77
653-V15G51C26	V-15G5-1C26-K	D	Short hinge roller lever	15A	0.5	400 gf	QC #187	2.59	2.47	2.31	2.14
653-V-156-1C5	V-156-1C5	D	Hinge roller lever	15A	1.0	200 gf	Solder	4.26	3.88	3.56	3.29
653-V15G61C25K	V-15G6-1C25-K	D	Hinge roller lever	15A	0.5	200 gf	QC #187	2.46	2.25	2.10	1.90
653-V15G61C26	V-15G6-1C26-K	D	Hinge roller lever	15A	0.5	400 gf	QC #187	3.02	2.75	2.44	2.24
653-V-16G-3C25-KR1	V-16G-3C25-K	D	Pin plunger	16A	0.5	200 gf	QC #187	2.75	2.50	2.30	2.12
653-V-16G-2C25	V-16G-2C25	D	Pin plunger	16A	0.5	200 gf	QC #187	2.45	2.24	2.05	1.90
653-V-16G-1C25-LR1	V-16G-1C25-L(R)	D	Pin plunger	16A	0.5	200 gf	QC #187	2.17	1.98	1.77	1.68
653-V-16G-3C26	V-16G-3C26	D	Pin plunger	16A	0.5	400 gf	QC #187	2.66	2.39	2.12	1.91
653-V-16G2-1C25-LR1	V-16G2-1C25-L(R)	D	Hinge lever	16A	0.5	200 gf	QC #187	2.59	2.36	2.17	2.00
653-V-21-1C6	V-21-1C6	D	Pin plunger	21A	1.0	400 gf	Solder	4.42	4.03	3.69	3.41
653-V-213-1C6	V-213-1C6	D	Long hinge lever	21A	1.0	400 gf	QC #250	3.68	3.49	3.30	3.05

For quantities greater than listed, call for quote.

## OMRON VX SERIES: SPDT MINIATURE SNAP ACTION SWITCHES

### Specifications:

- Inrush current: 15A max.
- Contact Form: SPDT

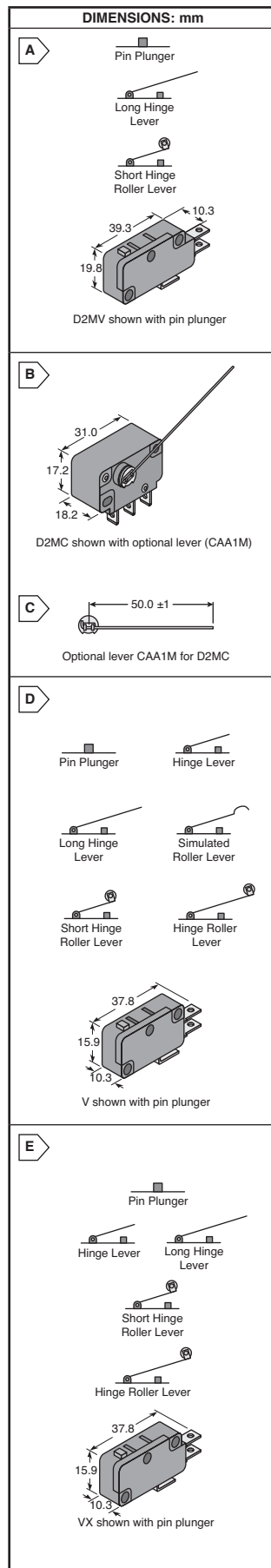
### Features:

- Compact snap action switch with low force operation
- Internal hinge lever mechanism assures outstanding contact reliability



MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Contact Rating	Operating Force (max.)	Terminals	Price Each			
							1	25	50	100
653-VX-01-1C23	VX-01-1C23	E	Pin plunger	0.1A @ 125VAC/30VDC	50 gf	QC #187	3.29	3.00	2.75	2.54
653-VX-5-1A2	VX-5-1A2	E	Pin plunger	5A @ 250VAC	25 gf	Solder	2.80	2.59	2.46	2.27
653-VX-5-1C22	VX-5-1C22	E	Pin plunger	5A @ 250VAC	25 gf	QC #187	2.32	2.15	2.04	1.95
653-VX-52-1C23	VX-52-1C23	E	Hinge lever	5A @ 250VAC	30 gf	QC #187	2.88	2.67	2.53	2.25
653-VX-53-1A3	VX-53-1A3	E	Long hinge lever	5A @ 250VAC	15 gf	Solder	2.70	2.51	2.37	2.28
653-VX-53-1C23	VX-53-1C23	E	Long hinge lever	5A @ 250VAC	15 gf	QC #187	2.91	2.71	2.55	2.36
653-VX-015-1C23	VX-015-1C23	E	Short hinge roller lever	0.1A @ 125VAC/30VDC	60 gf	QC #187	3.84	3.50	3.21	2.96
653-VX-55-1C23	VX-55-1C23	E	Short hinge roller lever	5A @ 250VAC	50 gf	QC #187	3.52	3.27	3.10	2.85
653-VX-56-1C23	VX-56-1C23	E	Hinge roller lever	5A @ 250VAC	30 gf	QC #187	2.95	2.71	2.57	2.46

For quantities greater than listed, call for quote.



Omron Basic/Snap Switches