

# OMRON Basic Snap Action Switches

**OMRON**  
ELECTRONIC COMPONENTS

RoHS Compliant This product is RoHS compliant.

## OMRON D3M SERIES: SUBMINIATURE BASIC SWITCHES

### Specifications:

- Electrical rating: 0.1A @ 30VDC, resistive
- Contact material: Gold alloy
- Insulation resistance: 100MΩ min. @ 500VDC

### Features:

- Saves wiring effort, production steps and time
- Easy wiring ensured through the Quick-Connect terminals
- External actuator mounts in either of two directions



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Contact Form	Operating Force (Max.)	Price Each			
						1	25	50	100
653-D3M-01K1-3	D3M-01K1-3	A	Hinge lever	SPST-NO	51 gf	2.46	2.21	1.96	1.76
653-D3M-01L3	D3M-01L3	B	Simulated roller lever	SPST-NC	102 gf	1.68	1.57	1.50	1.38
653-D3M-01K3-3	D3M-01K3-3	C	Simulated roller lever	SPST-NO	51 gf	2.40	2.16	1.91	1.62
653-D3M-01L3-3	D3M-01L3-3	B	Simulated roller lever	SPST-NO	102 gf	1.84	1.74	1.65	1.52
653-D3M-01L2	D3M-01L2	D	Hinge roller lever	SPST-NC	102 gf	2.37	2.22	2.11	1.93
653-D3M-01K2-3	D3M-01K2-3	E	Hinge roller lever	SPST-NO	51 gf	3.06	2.75	2.45	2.20
653-D3M-01L2-3	D3M-01L2-3	D	Hinge roller lever	SPST-NO	102 gf	1.95	1.82	1.75	1.59

## OMRON D3V SERIES: COST-EFFECTIVE SNAP ACTION SWITCHES

### Specifications:

- Contact material: Silver alloy
- Insulation resistance: 100MΩ min. @ 500VDC

### Features:

- Reliable basic switch with external lever
- Self-cleaning contacts



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Contact Form	Operating Force (Max.)	Terminals	Contact Gap (mm)	Mounting Hole (mm)	Price Each	
									1	25
<b>No Hinge, Rated 16A @ 250VAC</b>										
653-D3V-16-1C5	D3V-16-1C5	F	Pin plunger	SPDT	200 gf	QC #250	1.0	3.1	2.23	2.04
<b>Internal Hinge, Rated 11A @ 250VAC</b>										
653-D3V-11G1C25	D3V-11G1C25K	G	Short hinge lever	SPDT	200 gf	QC #187	0.5	2.9	1.83	1.75
653-D3V-11G21C25	D3V-11G21C25K	H	Hinge lever	SPDT	200 gf	QC #187	0.5	2.9	2.53	2.30
653-D3V-11G31-1C25-K	D3V-11G31-1C25-K	I	Long hinge lever	SPDT	200 gf	QC #187	0.5	2.9	1.87	1.84
653-D3V-11G41C25	D3V-11G41C25K	J	Sim. roller lever	SPDT	200 gf	QC #187	0.5	2.9	2.53	2.30
653-D3V-11G61C25	D3V-11G61C25K	K	Hinge roller lever	SPDT	200 gf	QC #187	0.5	2.9	2.92	2.62
<b>Internal Hinge, Rated 16A @ 250VAC</b>										
653-D3V-16G1C25	D3V-16G1C25-K	F	Pin plunger	SPDT	200 gf	QC #187	0.5	2.9	2.10	1.97
653-D3V-16G1C25A	D3V-16G1C25	F	Pin plunger	SPDT	200 gf	QC #187	0.5	3.1	2.06	1.88
653-D3V-16G-3C25	D3V-16G-3C25	F	Pin plunger	SPST-NO	200 gf	QC #187	0.5	3.1	1.60	1.46
653-D3V-16G21C25	D3V-16G21C25K	H	Hinge lever	SPDT	200 gf	QC #187	0.5	2.9	2.09	1.92
653-D3V-16G41C25	D3V-16G41C25K	J	Sim. roller lever	SPDT	200 gf	QC #187	0.5	2.9	2.28	2.21
653-D3V-16G61C25	D3V-16G61C25K	K	Hinge roller lever	SPDT	200 gf	QC #187	0.5	2.9	3.08	2.81
653-D3V-166-1C5	D3V-166-1C5	K	Hinge roller lever	SPDT	200 gf	QC #250	1.0	3.1	1.87	1.71
<b>Internal Hinge, Rated 21A @ 250VAC</b>										
653-D3V-21G-1C4A-K	D3V-21G-1C4A-K	F	Pin plunger	SPDT	125 gf	QC #250	0.5	2.9	1.80	1.65
<b>External Hinge, Rated 11A @ 250VAC</b>										
653-D3V-11G4M1C25	D3V-11G4M1C25K	L	Sim. roller lever	SPDT	200 gf	QC #187	0.5	2.9	2.01	1.93
653-D3V-11G6M1C25	D3V-11G6M1C25K	M	Hinge roller lever	SPDT	200 gf	QC #187	0.5	2.9	2.60	2.37
<b>External Hinge, Rated 16A @ 250VAC</b>										
653-D3V-16G2M1C25	D3V-16G2M1C25K	N	Hinge lever	SPDT	200 gf	QC #187	0.5	2.9	2.47	2.26

## OMRON J SERIES: ULTRA-SUBMINIATURE BASIC SWITCHES

### Specifications:

- Contact form: SPDT
- Contact material: Gold-plated silver

### Features:

- Allows large-capacity switching in small package



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Contact Rating@ 125VAC	Actuator Type	Operating Force (Max.)	Terminals	Price Each			
							1	25	50	100
653-J-7	J-7	O	7A	Pin plunger	140 gf	7.82	7.32	6.98	6.97	
* 653-J-7Y	J-7Y	O	7A	Pin plunger	140 gf	5.66	5.30	4.89	4.54	
653-J-7-V	J-7-V	P	7A	Short hinge lever	50 gf	11.31	10.59	10.09	9.66	
653-J-7-V4	J-7-V4	Q	7A	Long hinge lever	20 gf	9.53	8.91	8.50	8.13	

\*: Silver Contacts

## OMRON D2F SERIES: PC MOUNT SUBMINIATURE BASIC SWITCHES

### Specifications:

- Contact form: SPDT
- Contact material: D2F Silver alloy / D2F-01 Gold alloy
- Insulation resistance: 100MΩ min. @ 500VDC

### Features:

- Long life span assured by high-precision dual spring reverse-action mechanism



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Operating Force (Max.)	Terminals	Price Each				
						1	25	50	100	
<b>General Purpose, Low Force, Rated 1A @ 125VAC / 0.5A @ 30VDC</b>										
653-D2FF	D2F-F	R	Pin plunger	75 gf	PCB straight	1.19	1.13	1.01	.91	
653-D2F-FL	D2F-FL	S	Hinge lever	25 gf	PCB straight	1.22	1.13	1.08	1.04	
653-D2FFLA	D2F-FL-A	S	Hinge lever	25 gf	Right-angled PCB	2.19	2.09	1.97	1.81	
653-D2F-FL-A1	D2F-FL-A1	S	Hinge lever	25 gf	Left-angled PCB	3.14	2.86	2.62	2.43	
<b>General Purpose, Standard, Rated 3A @ 125VAC / 2A @ 30VDC</b>										
653-D2F	D2F	R	Pin plunger	150 gf	PCB straight	1.19	1.11	1.05	1.01	
653-D2F-T	D2F-T	R	Pin plunger	150 gf	Self-clinching PCB	1.18	1.08	.99	.91	
653-D2F-D3	D2F-D3	R	Pin plunger	150 gf	Solder	1.25	1.15	1.05	.97	
653-D2FL20	D2F-L20	T	Hinge roller lever	25 gf	PCB straight	2.60	2.37	2.18	2.01	
653-D2F-L	D2F-L	S	Hinge lever	80 gf	PCB straight	.97	.89	.85	.82	
653-D2F-L-A	D2F-L-A	S	Hinge lever	80 gf	Right-angled PCB	2.44	2.29	2.18	2.00	
653-D2F-L-A1	D2F-L-A1	S	Hinge lever	80 gf	Left-angled PCB	2.30	2.07	1.84	1.65	
653-D2F-L-D	D2F-L-D	S	Hinge lever	80 gf	Compact solder	1.30	1.19	1.10	1.00	
653-D2FL3	D2F-L3	U	Simulated roller lever	80 gf	PCB straight	2.58	2.32	2.06	1.85	
653-D2F-L2	D2F-L2	T	Hinge roller lever	80 gf	PCB straight	3.44	3.10	2.75	2.47	
653-D2F-L2-T	D2F-L2-T	T	Hinge roller lever	80 gf	Self-clinching PCB	2.89	2.64	2.42	2.23	
653-D2F-L2-D	D2F-L2-D	T	Hinge roller lever	80 gf	Compact solder	2.88	2.62	2.41	2.22	
<b>Micro-Load, Low Force, Rated 0.1A @ 30VDC</b>										
653-D2F-01F	D2F-01F	R	Pin plunger	75 gf	PCB straight	1.18	1.08	1.03	1.00	
653-D2F-01FL	D2F-01FL	S	Hinge lever	25 gf	PCB straight	.97	.89	.85	.82	
653-D2F-01FL-A	D2F-01FL-A	S	Hinge lever	25 gf	Right-angled PCB	2.45	2.23	2.05	1.89	
653-D2F-01FLD	D2F-01FL-D	S	Hinge lever	25 gf	Compact solder	1.61	1.48	1.35	1.25	
<b>Micro-Load, Standard, Rated 0.1A @ 30VDC</b>										
653-D2F-01	D2F-01	R	Pin plunger	150 gf	PCB straight	1.56	1.43	1.27	1.24	
653-D2F-01-D	D2F-01-D	R	Pin plunger	150 gf	Compact solder	1.33	1.23	1.13	1.04	
653-D2F-01L	D2F-01L	S	Hinge lever	80 gf	PCB straight	1.34	1.25	1.15	1.05	
653-D2F01L-A	D2F-01L-A	S	Hinge lever	80 gf	Right-angled PCB	2.27	2.07	1.90	1.75	
653-D2F-01L-D	D2F-01L-D	S	Hinge lever	80 gf	Compact solder	1.40	1.28	1.17	1.08	
653-D2F-01L3	D2F-01L3	U	Simulated roller lever	80 gf	PCB straight	1.74	1.57	1.39	1.25	
653-D2F-01L2	D2F-01L2	T	Hinge roller lever	80 gf	PCB straight	3.36	3.08	2.82	2.60	

