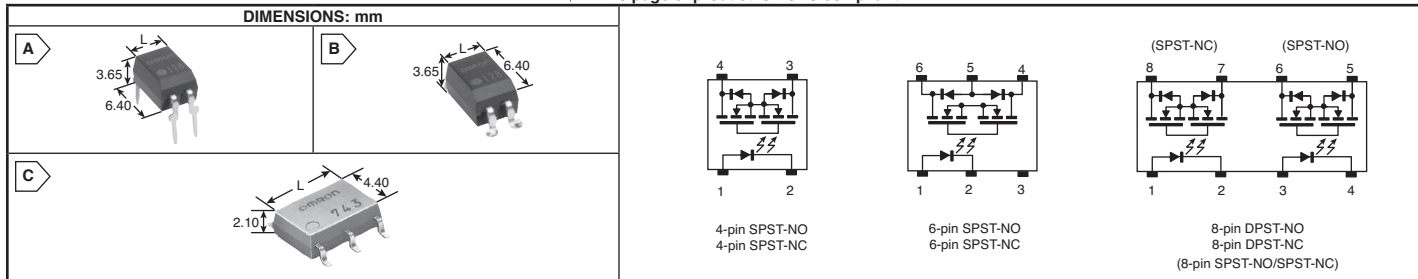


OMRON MOSFET Relays

OMRON

RoHS Compliant This page of product is RoHS compliant.



G3VM SERIES: MOSFET RELAYS WITH LOAD VOLTAGE 100-600V

Perfectly suited for Automated Test Equipment, Medical Equipment, Instrumentation, Security Equipment, Automated Meter Reading, Automotive Diagnostic Equipment, and Communications. Available in 1 and 2-Pole configurations in PCB, SMT, DIP, SOP, and SSOP packaging. Other options include current limiting, high dielectric voltage withstand, normally open and normally closed contact forms, high voltage and current load handling, and high-speed switching.

Features:

- Solid State performance and accuracy
- Smallest SSOP footprint in the industry (SSOP models)
- Low ON resistance (as low as 100mΩ)
- Low LED trigger current models (1mA)
- High speed switching
- 100,000 hours of continuous operation



* Low LED trigger 1mA (maximum) ** Current limiting (range 150-300mA) † Ultrasensitive with driving current 0.2mA

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Dimension L (mm)	Package/ Pin Count	Terminals	Load Current	Voltage Withstand 1 Minute (VAC)	ON Resistance (typical)	Output OFF State Capacitance (typical)	Leakage Current (typical)	Price Each					
											1	25	50	100		
100V Load Voltage, SPST-NO Contact Form																
653-G3VM-101AR	G3VM-101AR	A	4.58	DIP4	PCB	1000mA	2500	250mΩ	200pF	1μA (max.)	19.42	18.06	16.50	14.95		
653-G3VM-101DR	G3VM-101DR	B	4.58	DIP4	SMT	1000mA	2500	250mΩ	200pF	1μA (max.)	19.52	18.15	16.59	15.03		
653-G3VM-101BR	G3VM-101BR	A	7.12	DIP6	PCB	2000mA	2500	100mΩ	1000pF	1μA (max.)	20.39	18.96	17.33	15.70		
653-G3VM-101ER	G3VM-101ER	B	7.12	DIP6	SMT	2000mA	2500	100mΩ	1000pF	1μA (max.)	20.49	19.05	17.42	15.78		
653-G3VM-101HR	G3VM-101HR	C	6.30	SOP6	SMT	1400mA	1500	0.1Ω	70pF	10nA (max.)	13.41	12.06	10.72	9.65		
200V Load Voltage, SPST-NO Contact Form																
653-G3VM-201AY	G3VM-201AY	A	4.58	DIP4	PCB	250mA	5000	5Ω	90pF	1μA (max.)	8.07	6.86	5.65	5.08		
653-G3VM-201DY	G3VM-201DY	B	4.58	SMD4	SMT	250mA	5000	5Ω	90pF	1μA (max.)	7.96	6.76	5.57	5.01		
653-G3VM-201G	G3VM-201G	C	3.90	SOP4	SMT	50mA	1500	40Ω	15pF	0.07nA	4.82	4.34	3.85	3.47		
653-G3VM-S5	G3VM-S5	C	3.90	SOP4	SMT	150mA	1500	5Ω	100pF	0.45nA	2.50	2.32	2.20	1.96		
* 653-G3VM-201G1	G3VM-201G1	C	3.90	SOP4	SMT	200mA	1500	5Ω	90pF	1nA	3.60	3.23	2.87	2.59		
† 653-G3VM-201G2	G3VM-201G2	C	3.90	SOP4	SMT	200mA	1500	5Ω	90pF	1nA	4.11	3.43	3.25	3.10		
200V Load Voltage, DPST-NO Contact Form																
653-G3VM-202J1	G3VM-202J1	C	9.40	SOP8	SMT	200mA	1500	5Ω	100pF	3.1nA	4.82	4.34	3.85	3.47		
350V Load Voltage, SPST-NO Contact Form																
653-G3VM-351AY	G3VM-351AY	A	4.58	DIP4	PCB	100mA	5000	25Ω	30pF	1μA (max.)	8.13	6.91	5.69	5.12		
** 653-G3VM-2L	G3VM-2L	A	4.58	DIP4	PCB	120mA	2500	22Ω	40pF	0.5nA	2.64	2.37	2.11	1.89		
653-G3VM-351A	G3VM-351A	A	4.58	DIP4	PCB	120mA	2500	35Ω	30pF	1.5nA	1.95	1.81	1.72	1.54		
653-G3VM-351B	G3VM-351B	A	7.12	DIP6	PCB	120mA	2500	35Ω	30pF	1.5nA	2.26	2.03	1.80	1.62		
653-G3VM-351DY	G3VM-351DY	B	4.58	SMD4	SMT	100mA	5000	25Ω	30pF	1μA (max.)	8.28	7.04	5.80	5.22		
** 653-G3VM-2FL	G3VM-2FL	B	4.58	SMD4	SMT	120mA	2500	22Ω	40pF	0.5nA	2.14	2.00	1.95	1.85		
653-G3VM-351D	G3VM-351D	B	4.58	SMD4	SMT	120mA	2500	35Ω	30pF	1.5nA	2.03	1.88	1.79	1.59		
653-G3VM-351E	G3VM-351E	B	7.12	SMD6	SMT	120mA	2500	35Ω	30pF	1.5nA	2.30	2.07	1.84	1.60		
653-G3VM-351G	G3VM-351G	C	3.90	SOP4	SMT	110mA	1500	35Ω	30pF	1.5nA	2.56	2.38	2.26	2.01		
350V Load Voltage, DPST-NO Contact Form																
653-G3VM-352C	G3VM-352C	A	9.66	DIP8	PCB	120mA	2500	35Ω	30pF	1.5nA	2.55	2.46	2.33	2.25		
653-G3VM-352F	G3VM-352F	B	9.66	SMD8	SMT	120mA	2500	35Ω	30pF	1.5nA	3.31	2.98	2.57	2.38		
653-G3VM-352J	G3VM-352J	C	9.40	SOP8	SMT	110mA	1500	35Ω	30pF	1.5nA	3.31	2.98	2.64	2.38		
350V Load Voltage, SPST-NC Contact Form																
653-G3VM-353A	G3VM-353A	A	4.58	DIP4	PCB	150mA	2500	15Ω	85pF	10.5nA	6.42	5.77	5.13	4.62		
653-G3VM-353D	G3VM-353D	B	4.58	SMD4	SMT	150mA	2500	15Ω	85pF	10.5nA	6.36	5.72	5.08	4.57		
653-G3VM-353G	G3VM-353G	C	3.90	SOP4	SMT	120mA	1500	15Ω	65pF	10.5nA	6.36	5.72	5.08	4.57		
653-G3VM-353H	G3VM-353H	C	6.30	SOP6	SMT	120mA	1500	15Ω	65pF	10.5nA	6.42	5.77	5.13	4.62		
350V Load Voltage, DPST-NC Contact Form																
653-G3VM-354F	G3VM-354F	B	9.66	SMD8	SMT	150mA	2500	15Ω	85pF	10.5nA	12.07	10.73	9.65	9.12		
653-G3VM-354J	G3VM-354J	C	9.40	SOP8	SMT	120mA	1500	15Ω	65pF	10.5nA	13.41	12.07	10.72	10.09		
350V Load Voltage, SPST-NO/SPST-NC Contact Form																
653-G3VM-355CR	G3VM-355CR	A	9.66	DIP8	PCB	120mA	2500	15Ω	65pF	1.5NO, 10.5NC nA	8.71	7.83	6.96	6.27		
653-G3VM-355FR	G3VM-355FR	B	9.66	SMD8	SMT	120mA	2500	15Ω	65pF	1.5NO, 10.5NC nA	6.75	6.07	5.39	4.85		
400V Load Voltage, SPST-NO Contact Form																
653-G3VM-401AY	G3VM-401AY	A	4.58	DIP4	PCB	120mA	5000	17Ω	80pF	1μA (max.)	8.28	7.04	5.80	5.22		
653-G3VM-401B	G3VM-401B	A	7.12	DIP6	PCB	120mA	2500	17Ω	40pF	0.8nA	2.89	2.59	2.30	2.07		
653-G3VM-401BY	G3VM-401BY	A	7.12	DIP6	PCB	120mA	5000	17Ω	40pF	0.4nA	3.19	2.83	2.55	2.41		
653-G3VM-401D	G3VM-401D	B	4.58	SMD4	SMT	120mA	2500	18Ω	40pF	0.8nA	2.01	1.86	1.77	1.58		
653-G3VM-401DY	G3VM-401DY	B	4.58	SMD4	SMT	120mA	5000	17Ω	80pF	1μA (max.)	8.36	7.10	5.85	5.27		
† 653-G3VM-401G1	G3VM-401G1	C	3.90	SOP4	SMT	100mA	1500	18Ω	70pF	1nA	3.87	3.23	3.06	2.91		
653-G3VM-401G	G3VM-401G	C	3.90	SOP4	SMT	120mA	1500	17Ω	70pF	3nA	3.04	2.73	2.43	2.19		
400V Load Voltage, DPST-NO Contact Form																
653-G3VM-402F	G3VM-402F	B	9.66	SMD8	SMT	120mA	2500	18Ω	40pF	0.8nA	4.88	4.39	3.90	3.51		
653-G3VM-402J	G3VM-402J	C	9.40	SOP8	SMT	120mA	1500	17Ω	70pF	3nA	3.90	3.55	3.26	3.00		
600V Load Voltage, SPST-NO Contact Form																
653-G3VM-601AY	G3VM-601AY	A	4.58	DIP4	PCB	90mA	5000	30Ω	75pF	1μA (max.)	8.88	7.55	6.22	5.59		
653-G3VM-601BY	G3VM-601BY	A	7.12	DIP6	PCB	100mA	5000	30Ω	120pF	0.5nA	6.42	5.77	5.13	4.62		
653-G3VM-601DY	G3VM-601DY	B	4.58	SMD4	SMT	90mA	5000	30Ω	75pF	1μA (max.)	8.91	7.57	6.24	5.61		
653-G3VM-601EY	G3VM-601EY	B	7.12	SMD6	SMT	100mA	5000	30Ω	120pF	0.5nA	6.58	5.92	5.26	4.74		
† 653-G3VM-601G1	G3VM-601G1	C	3.90	SOP4	SMT	70mA	1500	35Ω	75pF	1nA	5.18	4.32	4.09	3.89		