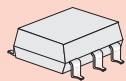
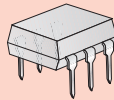


MOSFET OUTPUT

EXCEL type EPR

A range of economical solid state, MOSFET output relays offering a wide choice of contact forms load voltages and package types. These relays offer an input to output isolation voltage of 3750Vac (1500Vac for SOP packages), fast turn times, and low resistances. All relays can be operated with a control current as low as 5mA enabling their operation from TTL/CMOS sources. All types listed can switch either ac or dc loads. Ideal for use in applications in the security (PIR/SENSOR circuitry), instrumentation and industrial markets.

SMD
PackageSOP
PackageThrough
Hole

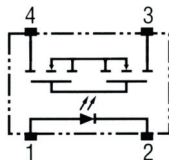
- ◆ Contactless operation
- ◆ High reliability
- ◆ Small size
- ◆ High I/O isolation
- ◆ Switches ac or dc
- ◆ TTL/CMOS compatible input
- ◆ Choice of packages
- ◆ Competitively priced

Specification

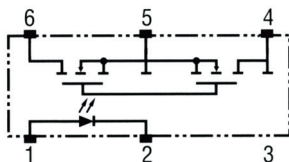
LED	
Forward voltage.....	1.4V(max.)
Reverse voltage (max.)	5V
Forward current (max.)	50mA
Input control current (min.)	5mA
Insulation resistance (min.)	
1000MΩ	
Capacitance (input to output)	1.0pF (typ.)
Off state leakage current (max.)	NO types 1μA
	NC types 10μA
Dielectric strength (input to output)	
SOP	1500Vac
Through hole/SMD	3750Vac
Operating temperature range	-40°C to +85°C
Storage temperature range	-40°C to +100°C

Terminal Arrangements

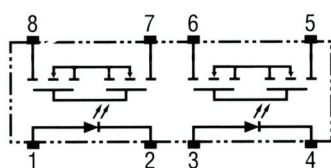
4 pin



6 pin



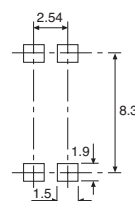
8 pin



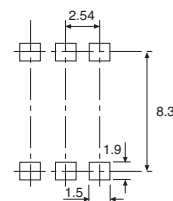
Pad Pattern

SMD

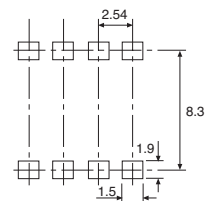
4 pin



6 pin

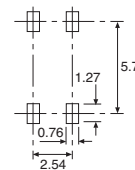


8 pin

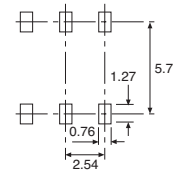


Small Outline

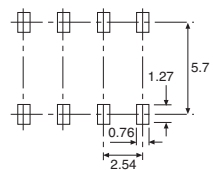
4 pin



6 pin



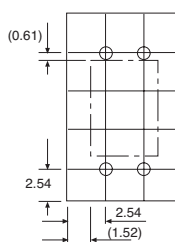
8 pin



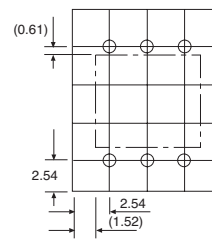
Footprint

Through Hole

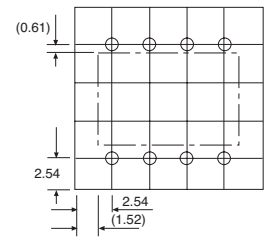
4 pin



6 pin



8 pin



MOSFET OUTPUT



SURFACE MOUNT

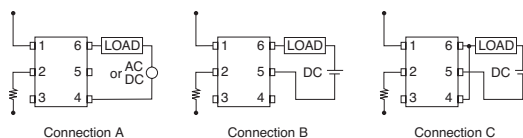
Supplied in sticks. Tape & reel available to special order.

Peak Load Voltage (AC/DC)	Contact Form	Common (Source) Terminal	No. of Terminals	Package	Load Current Cont. (mA)	anglia Order Code	ON ++ Resistance (Ω)		Switching Time (ms)	
							Typ.	Max.	Turn on Max.	Turn off Max.
60	1A (SPNO)	-	4	SMD	120	AM121A*	7	16	1.5	1
		-	4	SOP	120	AM121SA*	7	16	1.5	1
		-	4	SMD	400	AM121	1	1.4	0.5	0.3
		-	4	SOP	350	AM121S	1	1.4	0.5	0.3
		YES	6	SMD	400	AM124	1	1.4	0.5	0.3
		YES	6	SOP	350	AM124S	1	1.4	0.5	0.3
	2A (DPNO)	-	8	SMD	400	AM327	1	1.4	0.5	0.3
		-	8	SOP	350	AM327S	1	1.4	0.5	0.3
200	1A (SPNO)	-	4	SMD	200	AM161	6	10	0.5	0.3
		-	4	SOP	150	AM161S	6	10	0.5	0.3
		YES	6	SMD	200	AM164	6	10	0.5	0.3
		YES	6	SOP	150	AM164S	6	10	0.5	0.3
	1B (SPNC)	-	4	SMD	100	AM261	17	30	0.5	1
		-	4	SOP	80	AM261S	17	30	0.5	1
		YES	6	SMD	100	AM264	17	30	0.5	1
		YES	6	SOP	80	AM264S	17	30	0.5	1
	2A (DPNO)	-	8	SMD	200	AM367	6	10	0.5	0.3
		-	8	SOP	150	AM367S	6	10	0.5	0.3
	2B (DPNC)	-	8	SMD	100	AM467	17	30	0.5	1
		-	8	SOP	80	AM467S	17	30	0.5	1
	1A+1B (SPNO+SPNC)	-	8	SMD	200(1A) 100(1B)	AM567	6(1A) 17(1B)	10(1A) 30(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
		-	8	SOP	150(1A) 80(1B)	AM567S	6(1A) 17(1B)	10(1A) 30(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
400	1A (SPNO)	-	4	SMD	130	AM181	20	30	0.5	0.3
		-	4	SOP	100	AM181S	20	30	0.5	0.3
		YES	6	SMD	130	AM184	20	30	0.5	0.3
		YES	6	SOP	100	AM184S	20	30	0.5	0.3
	1B (SPNC)	-	4	SMD	100	AM281	25	50	0.5	1
		-	4	SOP	80	AM281S	25	50	0.5	1
		YES	6	SMD	100	AM284	25	50	0.5	1
		YES	6	SOP	80	AM284S	25	50	0.5	1
	2A (DPNO)	-	8	SMD	130	AM387	20	30	0.5	0.3
		-	8	SOP	100	AM387S	20	30	0.5	0.3
	2B (DPNC)	-	8	SMD	100	AM487	25	50	0.5	1
		-	8	SOP	80	AM487S	25	50	0.5	1
	1A+1B (SPNO+SPNC)	-	8	SMD	130(1A) 100(1B)	AM587	20(1A) 25(1B)	30(1A) 50(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
		-	8	SOP	100(1A) 80(1B)	AM587S	20(1A) 25(1B)	30(1A) 50(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
600	1A (SPNO)	-	4	SMD	70	AM191	35	60	0.5	0.3
		YES	6	SMD	70	AM194	35	60	0.5	0.3
	2A (DPNO)	-	8	SMD	70	AM397	35	60	0.5	0.3

* Economy version

++ Note : ON Resistance figures quoted for 6 pin devices with a common (source) terminal, are all based upon connection 'A' as shown below. Lower ON resistances for dc loads can be obtained using B or C connections.

CONNECTION DIAGRAM



Through Hole
shown overleaf > > >

MOSFET OUTPUT

continued

THROUGH HOLE

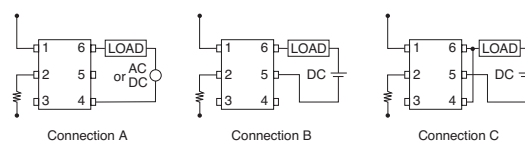
Supplied in tubes. Tape & reel available to special order.

Peak Load Voltage (AC/DC)	Contact Form	Common (Source) Terminal	No. of Terminals	Load Current Cont. (mA)	anglia Order Code	ON ++ Resistance (Ω)		Switching Time (ms)	
						Typ.	Max.	Turn on Max.	Turn off Max.
60	1A (SPNO)	-	4	120	456121A*	7	16	1.5	1
		-	4	400	456121	1	1.4	0.5	0.3
		YES	6	400	456124	1	1.4	0.5	0.3
	2A (DPNO)	-	8	400	456327	1	1.4	0.5	0.3
200	1A (SPNO)	-	4	200	456161	6	10	0.5	0.3
		YES	6	200	456164	6	10	0.5	0.3
	1B (SPNC)	-	4	100	456261	17	30	0.5	1
		YES	6	100	456264	17	30	0.5	1
	2A (DPNO)	-	8	200	456367	6	10	0.5	0.3
	2B (DPNC)	-	8	100	456467	17	30	0.5	1
	1A+1B (SPNO+SPNC)	-	8	200(1A) 100(1B)	456567	6(1A) 17(1B)	10(1A) 30(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
		-	8	200(1A) 100(1B)	456567	6(1A) 17(1B)	10(1A) 30(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
400	1A SPNO)	-	4	130	456181	20	30	0.5	0.3
		YES	6	130	456184	20	30	0.5	0.3
	1B (SPNC)	-	4	100	456281	25	50	0.5	1
		YES	6	100	456284	25	50	0.5	1
	2A (DPNO)	-	8	130	456387	20	30	0.5	0.3
	2B (DPNC)	-	8	100	456487	25	50	0.5	1
	1A+1B (SPNO+SPNC)	-	8	130(1A) 100(1B)	456587	20(1A) 25(1B)	30(1A) 50(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
		-	8	130(1A) 100(1B)	456587	20(1A) 25(1B)	30(1A) 50(1B)	0.5(1A) 0.5(1B)	0.3(1A) 1(1B)
600	1A (SPNO)	-	4	70	456191	35	60	0.5	0.3
		YES	6	70	456194	35	60	0.5	0.3
	2A (DPNO)	-	8	70	456397	35	60	0.5	0.3

* Economy version

++ Note : ON Resistance figures quoted for 6 pin devices with a common (source) terminal, are all based upon connection 'A' as shown below. Lower ON resistances for dc loads can be obtained using B or C connections.

CONNECTION DIAGRAM

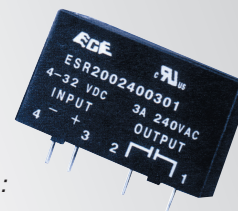


High power, single phase and three phase solid state relays are available to special order.

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www.anglia.com/ece

Alternatively, contact our Sales Desk to discuss your specific requirements.



MOSFET OUTPUT

OMRON type G3VM

A range of solid state, MOSFET output relays offering a wide choice of contact forms and load voltages. The Omron G3VM feature photo - LED inputs and dual MOSFET load output circuits giving high isolation between input and output coupled with the ability to control AC or DC loads. Unlike mechanical relays these solid state relays offer more reliable switching with faster response times (typically 1ms) and low ON resistance.



SMD
Package



SOP
Package



Through
Hole

- ◆ Contactless operation
- ◆ High reliability
- ◆ Small size
- ◆ Isolation to 5kV
- ◆ Switch ac or dc
- ◆ Current limited models (CLF) available
- ◆ Telecom types provided
- ◆ Choice of packages

NEW

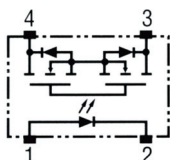
Specification

LED
Reverse voltage (max.) 5V (*parts 6V)
Forward current (max.) 50mA (HI-PERF 30mA)

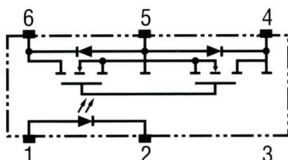
Insulation resistance (min.) 1000MΩ
Capacitance (input to output) 0.8pF (typ.)
Off state leakage current (max.) 1μA
Dielectric strength (input to output)
SOP 1500Vac
HI-ISOL types 5000Vac
Through hole/SMD 2500Vac
Operating temperature range -40°C to +85°C
Storage temperature range -55°C to +125°C

Terminal Arrangements

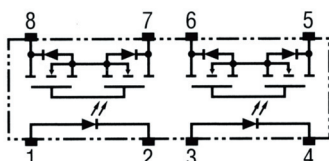
4 pin



6 pin



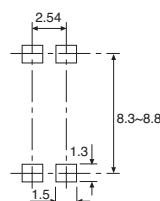
8 pin



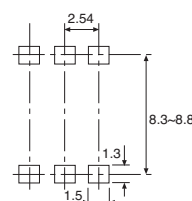
Pad Pattern

SMD Package

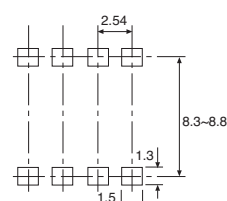
4 pin



6 pin

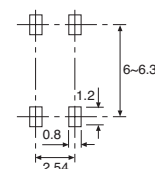


8 pin

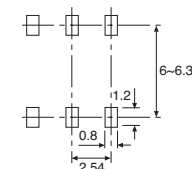


SOP Package

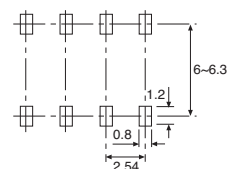
4 pin



6 pin



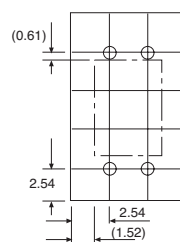
8 pin



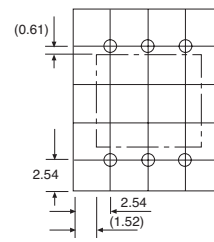
Footprint

Through Hole

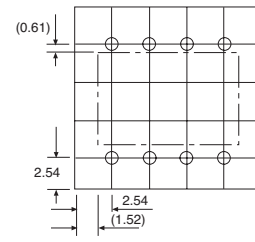
4 pin



6 pin



8 pin



MOSFET OUTPUT

continued

SURFACE MOUNT

Supplied in sticks. Tape & reel available to special order.

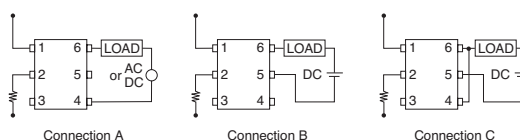


Peak Load Voltage (AC/DC)	Contact Form	Function	Common (Source) Terminal	No. of Terminals	Package	Load Current Cont. (mA)	Manf. Part No. & anglia Order Code	ON ++ Resistance (Ω)		LED Trigger Current (mA)		Switching Time (ms)			
								Typ.	Max.	Typ.	Max.	Turn on Typ.	Turn on Max.	Turn off Typ.	Turn off Max.
60	1A (SPNO)	Gen. purpose	-	4	SMD	500	G3VM-61D1	1	2	1.6	3	0.8	2	0.1	0.5
			-	4	SOP	400	G3VM-61G1	1	2	1.6	3	0.8	2	0.1	0.5
		Gen. purpose	YES	6	SMD	500	G3VM-61E1	1	2	1.6	3	0.8	2	0.1	0.5
			YES	6	SOP	400	G3VM-61H1	1	2	1.6	3	0.8	2	0.1	0.5
	2A (DPNO)	Gen. purpose	YES	6	SMD	300	G3VM-XNF	1.4	2	1	5	0.2	0.5	0.2	0.5
			-	8	SMD	500	G3VM-62F1	1	2	1.6	3	0.8	2	0.1	0.5
80	1A (SPNO)	Gen. purpose	-	4	SMD	500	G3VM-62J1	1	2	1.6	3	0.8	2	0.1	0.5
			-	8	SOP	400	G3VM-62J1	1	2	1.6	3	0.8	2	0.1	0.5
	1A (SPNO)	Gen. purpose	-	4	SOP	350	G3VM-81G1	1	1.2	1	4	0.3	0.5	0.3	0.5
			-	4	SOP	350	G3VM-81G1	1	1.2	1	4	0.3	0.5	0.3	0.5
		Gen. purpose	YES	6	SOP	50	G3VM-201G	40	50	1	3	-	0.5	-	0.2
			YES	6	SOP	200	G3VM-201H1	5	8	1	3	0.6	1.5	0.1	1
350	1A (SPNO)	Gen. purpose	-	4	SOP	200	G3VM-202J1	5	8	1	3	0.6	1.5	0.1	1
			-	8	SOP	200	G3VM-202J1	5	8	1	3	0.6	1.5	0.1	1
		Gen. purpose	YES	6	SMD	120	G3VM-351D	35	50	1	3	0.3	1	0.1	1
			YES	6	SOP	110	G3VM-351G	35	50	1	3	0.3	1	0.1	1
		Gen. purpose	YES	6	SMD	120	G3VM-351E	25	35	1	3	0.3	1	0.1	1
			YES	6	SOP	110	G3VM-351H	25	35	1	3	0.3	1	0.1	1
	1B (SPNC)	Telecom/CLF	-	4	SMD	120	G3VM-351D	35	50	1	3	0.3	1	0.1	1
			YES	6	SMD	120	G3VM-351G	35	50	1	3	0.3	1	0.1	1
		Gen. purpose	-	4	SMD	120	G3VM-2FL	22	35	1	3	-	1	-	1
			YES	6	SMD	120	G3VM-3FL	22	35	-	3	-	1	-	1
		Gen. purpose	-	4	SMD	150	G3VM-353D	15	25	1	3	0.1	1	1	3
			-	4	SOP	120	G3VM-353G	15	25	1	3	-	1	-	3
	1A+1B (SPNO+SPNC)	Gen. purpose	YES	6	SMD	150	G3VM-353E	15	25	1	3	0.1	1	1	3
			YES	6	SOP	120	G3VM-353H	15	25	1	3	-	1	-	3
		Gen. purpose	-	8	SMD	100	G3VM-355F	40	50	1	3	0.3	1	0.5	1
			-	8	SOP	90	G3VM-355J	40	50	1	3	0.3	1	0.5	1
		Gen. purpose	-	8	SMD	120	G3VM-352F	35	50	1	3	0.3	1	0.1	1
			-	8	SOP	110	G3VM-352J	35	50	1	3	0.3	1	0.1	1
400	2A (DPNO)	Telecom/CLF	-	8	SMD	120	G3VM-WFL	22	35	1	3	-	1	-	1
			-	8	SMD	120	G3VM-WFL	22	35	1	3	-	1	-	1
		Gen. purpose	-	8	SMD	150	G3VM-354F	15	25	1	3	0.1	1	1	3
			-	8	SOP	120	G3VM-354J	15	25	1	3	-	1	-	3
		Gen. purpose	-	8	SMD	150	G3VM-354F	15	25	1	3	0.1	1	1	3
			-	8	SOP	120	G3VM-354J	15	25	1	3	-	1	-	3
	1A (SPNO)	Gen. purpose	-	4	SMD	120	G3VM-401D	18	35	1	3	-	1	-	1
			-	4	SOP	120	G3VM-401G	17	35	1	3	0.3	1	0.1	1
		Gen. purpose	YES	6	SMD	120	G3VM-401E	17	35	1	3	0.3	1	0.1	1
			YES	6	SOP	120	G3VM-401H	17	35	1	3	0.3	1	0.1	1
		Telecom/HI-ISOL	YES	6	SMD	120	G3VM-401EY	17	35	-	3	0.3	1	0.1	1
			YES	6	SMD	150	G3VM-4NF	8	12	1	5	0.3	1	0.3	1
600	2A (DPNO)	Gen. purpose	-	8	SMD	120	G3VM-402F	18	35	1	3	-	1	-	1
			-	8	SOP	120	G3VM-402J	17	35	1	3	0.3	1	0.1	1
	1A (SPNO)	Telecom/HI-ISOL	YES	6	SMD	100	G3VM-601EY	22	35	1.6	5	0.5	1.5	0.1	1
			YES	6	SMD	100	G3VM-601EY	22	35	1.6	5	0.5	1.5	0.1	1

CLF - Current limited versions

++ Note : ON Resistance figures quoted for 6 pin devices with a common (source) terminal, are all based upon connection 'A' as shown below. Lower ON resistances for dc loads can be obtained using B or C connections.

CONNECTION DIAGRAM



MOSFET OUTPUT

THROUGH HOLE

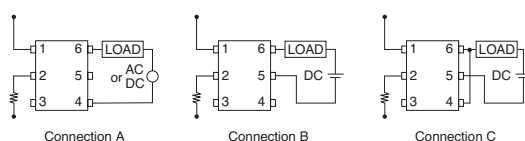
Supplied in tubes. Tape & reel available to special order.

Peak Load Voltage (AC/DC)	Contact Form	Function	Common (Source) Terminal	No. of Terminals	Load Current Cont. (mA)	Manf. Part No. & anglia Order Code	ON ++ Resistance (Ω)		LED Trigger Current (mA)		Switching Time (ms)			
							Typ.	Max.	Typ.	Max.	Turn on Typ.	Turn on Max.	Turn off Typ.	Turn off Max.
60	1A (SPNO)	Gen. purpose	-	4	500	G3VM-61A1	1	2	1.6	3	0.8	2	0.1	0.5
			YES	6	500	G3VM-61B1	1	2	1.6	3	0.8	2	0.1	0.5
	2A (DPNO)	HI-PERF	YES	6	300	G3VM-XN	1.4	2	1	5	0.2	0.5	0.2	0.5
		Gen. purpose	-	8	500	G3VM-62C1	1	2	1.6	3	0.8	2	0.1	0.5
350	1A (SPNO)	Gen. purpose	-	4	120	G3VM-351A	35	50	1	3	0.3	1	0.1	1
			YES	6	120	G3VM-351B	25	35	1	3	0.3	1	0.1	1
		Telecom/CLF	-	4	120	G3VM-2L	22	35	1	3	-	1	-	1
			YES	6	120	G3VM-3L	22	35	-	3	-	1	-	1
	1B (SPNC)	Gen. purpose	-	4	150	G3VM-353A	15	25	1	3	0.1	1	1	3
			YES	6	150	G3VM-353B	15	25	1	3	0.1	1	1	3
	1A+1B (SPNO+SPNC)	Gen. purpose	-	8	100	G3VM-355C	35	50	1	3	0.3	1	0.5	1
	2A (DPNO)	Gen. purpose	-	8	120	G3VM-352C	35	50	1	3	0.3	1	0.1	1
		Telecom/CLF	-	8	120	G3VM-WL	22	35	1	3	-	1	-	1
	2B (DPNC)	Gen. purpose	-	8	150	G3VM-354C	15	25	1	3	0.1	1	1	3
400	1A (SPNO)	Gen. purpose	-	4	120	G3VM-401A	18	35	1	3	-	1	-	1
			YES	6	120	G3VM-401B	17	35	1	3	0.3	1	0.1	1
		Telecom/HI-ISOL	YES	6	120	G3VM-401BY	17	35	-	3	0.3	1	0.1	1
		HI-PERF	YES	6	150	G3VM-4N	8	12	1	5	0.3	1	0.3	1
	2A (DPNO)	Gen. purpose	-	8	120	G3VM-402C	18	35	1	3	-	1	-	1
600	1A (SPNO)	Telecom/HI-ISOL	YES	6	100	G3VM-601BY	25	35	1.6	5	0.2	1.5	0.2	1

CLF - Current limited versions

++ Note : ON Resistance figures quoted for 6 pin devices with a common (source) terminal, are all based upon connection 'A' as shown below. Lower ON resistances for dc loads can be obtained using B or C connections.

CONNECTION DIAGRAM



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