

Relays

— NEW —

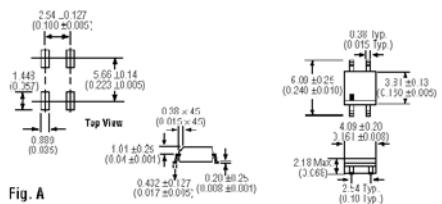


Fig. A

Single Pole OptoMOS Relay

Clare's Single Pole OptoMOS® Relays devices are an integral part of Clare's growing family of optical solid state switching devices. These single output devices offer a variety of solutions within the telecommunication, industrial control, security and instrumentation industries. As replacements for 1-Form-A (normally open output) and 1-Form-B (normally closed output) mechanical relays, these devices utilize discrete semiconductor components as opposed to conventional coils and contacts. Unlike their electromechanical counterparts, there are no moving parts within these devices. Therefore, they can offer faster, more reliable, bounce-free switching in a much more compact through hole or surface mount package. Optical isolation assures extremely high I/O isolation. Current limiting is available on some models.

Current limiting for added protection is available on some models.

4 Pin SOP 1-Form-A — Fig. A

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-0008	LCC110	350	120	35.0	7.30
252-1240	LCC120	250	170	20.0	10.33

8 Pin 1-Form-C

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-1310	CPC1008N	100	150	8.0	1.91
252-1320	CPC1016N	100	100	16.0	1.73

252-1330	CPC1030N	350	100	35.0	1.63
252-1340	CPC1035N	350	120	30.0	2.01
252-1350	CPC1230N	350	120	30.0	2.01

252-1360	CPC1150N	350	100	50.0	1.81
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4 Pin SOP 1-Form-B — Fig. A

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-1370	PLA134	100	350	3.0	5.07
252-1380	PLA143	600	100	50.0	5.00
252-1120	PLA150	250	250	7.0	6.94
252-1130	PLA160	300	50	100.0	5.99
252-1140	XCA170	350	100	50.0	3.31

6 Pin 1-Form-A — Fig. B

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-1105	LCA110	350	120	35.0	2.76
252-1106	LCA125	300	170	20.0	9.14
252-1110	LCA710	60	1000	0.5	9.13
252-1115	PLA110	400	150	22.0	3.82
252-1170	PLA137	100	350	3.0	5.07
252-1180	PLA143	600	100	50.0	5.00
252-1190	PLA150	250	250	7.0	6.94
252-1200	PLA160	300	50	100.0	5.99
252-1210	XCA170	350	100	50.0	3.31

6 Pin 1-Form-B — Fig. B and Fig. C

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-0003	LCB110	350	120	35.0	6.98
252-1150	LCB120	250	170	20.0	4.92
252-1390	PLB150	250	250	7.0	4.69

Dual Pole OptoMOS Relay — Fig. D

Clare's Dual Pole OptoMOS® Relays place two independent relays into a single 8 pin package. By integrating an additional relay into one package, Clare has paved the way for designers to condense more functionality into a single device. The result — more compact design with less board space consumption. Offerings include 2-Form-A, 2-Form-B, and independent Form-A/Form-B. In addition to being available in the through hole and surface mount packages, the eight pin product is now available in the revolutionary flatpack package. This package type shows Clare's commitment to the future as it fulfills the driving needs of PCMCIA design. As with other MOSFET products, fast, reliable switching is assured. Current limiting capabilities are available on certain models.

8 Pin 2-Form-A

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-0004	LAA110	350	120	35.0	7.30
252-1200	PAA140	400	250	8.0	14.03
252-1210	PAA150	250	250	7.0	13.29
252-1220	XAA170	350	100	50.0	6.20

8 Pin 2-Form-B

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-1230	LBB110	350	120	35.0	6.96
252-1400	PBB150	250	250	7.0	9.69
252-1410	XBB170	350	100	50.0	4.18

8 Pin 1-Form-A/1-Form-B

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)	EACH
252-0005	LBA110	350	120	35.0	7.30
252-1420	PBA150	250	250	7.0	8.41
252-1430	XBA170	350	100	50.0	4.18

Common Input OptoMOS Relay — Fig. D

Clare's Common Input OptoMOS® Relays provide a solution in designs where two independent outputs are driven by a common input. Common input relays are available in a variety of configurations which include a common input driving two normally open outputs (1-Form-2A) and a common input driving one normally open and one normally closed output (1-Form-C). These devices utilize the same technology as other OptoMOS products so quality and reliability can be assured. Clare is committed to meeting the needs of the present and future.

8 Pin 1-Form-A/1-Form-B

Stock No.	Mfr.'s Type	Total Harmonic Distortion (%)	Servo Linearity (%)	Bandwidth (kHz)	I/O Isolation (V <sub>rms</sub> )	EACH
252-1170	LOC110	87 dB	0.01	<200	3750	5.02
252-1180	LOC111	87 dB	0.01	<200	3750	5.64
252-1190	LOC112	87 dB	0.01	<200	3750	5.33
252-1450	LOC210P	87 dB	0.01	<200	3750	14.56
252-1460	LOC211P	87 dB	0.01	<200	3750	13.72

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Common Input OptoMOS Relay (continued)

8 Pin 1-Form-C

Stock No.	Mfr.'s Type	V <sub>LOAD</sub> (V)	I <sub>LOAD</sub> (mA)	R <sub>ON</sub> (Ohms)
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