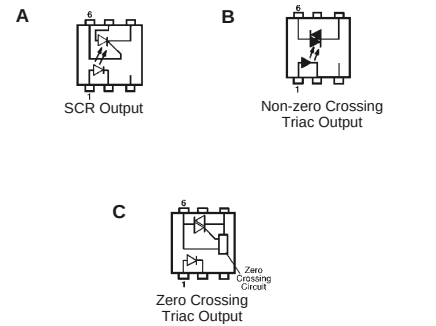


Optoisolators

SCR & Triac Output Optoisolators

Diagram	Isolation Voltage	Max. I _F Trigger	Min. Blocking Voltage	I _{out} (mA)	Digi-Key Part No.	1	10	100	500	Manufacturer
A	660	14mA	400V	300	4N401S-ND	1.63	15.28	139.75	617.50	Isocom
B	5300	30mA	250V	100	MOC3009QT-ND	.58	5.41	49.45	218.50	QT Optoelectronics
B	5300	15mA	250V	100	MOC3010QT-ND	.60	5.64	51.60	228.00	QT Optoelectronics
B	5300	10mA	250V	100	MOC3011QT-ND	.63	5.88	53.75	237.50	QT Optoelectronics
B	5300	30mA	400V	100	MOC3020QT-ND	.60	5.64	51.60	228.00	QT Optoelectronics
B	5300	15mA	400V	100	MOC3021QT-ND	.63	5.88	53.75	237.50	QT Optoelectronics
B	5300	10mA	400V	100	MOC3022QT-ND	.65	6.11	55.90	247.00	QT Optoelectronics
B	5300	10mA	400V	100	MOC3022ZQT-ND	.70	6.58	60.20	266.00	QT Optoelectronics
B	5300	5mA	400V	100	MOC3023QT-ND	1.15	10.81	98.90	437.00	QT Optoelectronics
C	7500	30mA	250V	100	MOC3030IS-ND	1.55	14.57	133.30	589.00	Isocom
C	7500	15mA	250V	100	MOC3031IS-ND	1.55	14.57	133.30	589.00	Isocom
C	7500	10mA	250V	100	MOC3032IS-ND	1.55	14.57	133.30	589.00	Isocom
C	7500	30mA	400V	100	MOC3040IS-ND	1.55	14.57	133.30	589.00	Isocom
C	7500	15mA	400V	100	MOC3041IS-ND	1.55	14.57	133.30	589.00	Isocom
C	7500	10mA	400V	100	MOC3042IS-ND	1.55	14.57	133.30	589.00	Isocom



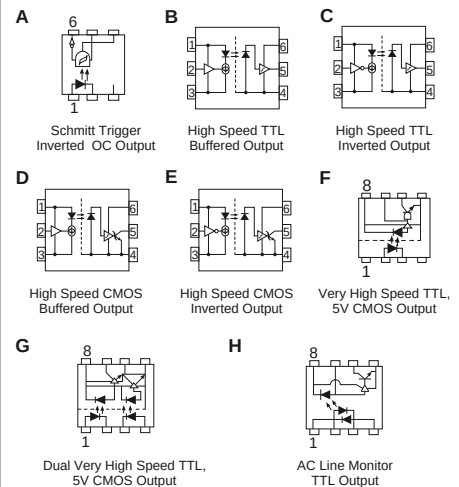
Logic Output Optoisolators

Diagram	Function	Input: LSTTL Output	15M Baud Rt. Output Configuration	Digi-Key Part No.	1	10	100	500	Manufacturer
B	Buf. Inv.	TTL	Totem Pole	740L6000QT-ND	3.13	29.38	268.75	1187.50	QT Optoelectronics
C	Inv.	TTL	Totem Pole	740L6001QT-ND	3.13	29.38	268.75	1187.50	QT Optoelectronics
D	Buf. Inv.	CMOS	Open Collect.	740L6010QT-ND	3.13	29.38	268.75	1187.50	QT Optoelectronics
E	Inv.	CMOS	Open Collect.	740L6011QT-ND	3.13	29.38	268.75	1187.50	QT Optoelectronics

Diagram	V _{ISO} (RMS)	I _{on} Current (Max.)	Max. DataRate (NRZ)	Operating Voltage Min/Max	Digi-Key Part No.	1	10	100	500	Manufacturer
A	2500V	1.6mA	1.0MHz	3V/16V	H11L1QT-ND	1.00	9.40	86.00	380.00	QT Optoelectronics
A	2500V	10mA	1.0MHz	3V/16V	H11L2QT-ND	.88	8.23	75.25	332.50	QT Optoelectronics
A	2500V	5mA	1.0MHz	3V/16V	H11L3QT-ND	.75	7.05	64.50	285.00	QT Optoelectronics
A	2500V	1.6mA	1.0MHz	3V/16V	H11L1IS-ND	1.73	16.22	148.35	655.50	Isocom
A	2500V	10mA	1.0MHz	3V/16V	H11L2IS-ND	1.63	15.28	139.75	617.50	Isocom

Diagram	I _{in} /I _{out} (mA)	Max. Prop. Delay (ns)	Typ. CMR V/μsec.	V _{ISO} RMS	Digi-Key Part No.	1	10	100	500	Manufacturer
F	5/13	75	10,000	2500	HCPL2601QT-ND	1.73	16.22	148.35	655.50	QT Optoelectronics
G	5/13	75	10,000	2500	HCPL2630QT-ND	3.00	28.20	258.00	1140.00	QT Optoelectronics
G	5/13	75	10,000	2500	HCPL2631QT-ND	3.25	30.55	279.50	1235.00	QT Optoelectronics

Diagram	Isolation Voltage	BV _{CEO} (Min.)	Typ. I _{on} /I _{off} (μsec.)	Digi-Key Part No.	1	10	100	500	Manufacturer
H	2500	5V	1/1	MID400QT-ND	3.38	31.73	290.25	1282.50	QT Optoelectronics



CP Clare OptoMOS Solid State Switches

Figure A through D are single and dual output solid state switches housed in a 6 or 8 pin dip package. Highly reliable bounce-free, arc-free switching with over 15 billion operations possible. UL, CSA approved and FCC compatible. "TS" Series Telecom Switches (Fig. E) incorporates an isolated solid state relay for hookswitch and dial pulse or loop start switching with a bi-directional Opto-coupler for ring detection and on-hook/off-hook detection. Eliminates up to eight discrete components. CP Clare's "LDA" series current sensors (Fig. F, G) provide optical isolation between control and switching circuits. Available in a single transistor output (33hfe min) or darlington output (300 hfe min.). Applications include Telecom, Industrial Control and Instrumentation.

Industrial Control and Instrumentation: Figure H is dual linear optocouplers

with a wide bandwidth and high gain (55 - 142%), available in either Dip, SMT, or Flat package.

CP Clare's PLCA110 (Figure I): Features a 1-Form-A Solid State Relay integrated with a Solid State Surge Arrester. The Solid State Surge Arrester is designed for secondary telecom line protection, meets FCC Part 68 and provides breaker voltage and repetitive surges with no degradation. The relay portion offers reliable bounce free switching. Ideal for handling hook switch/dial pulse functions.

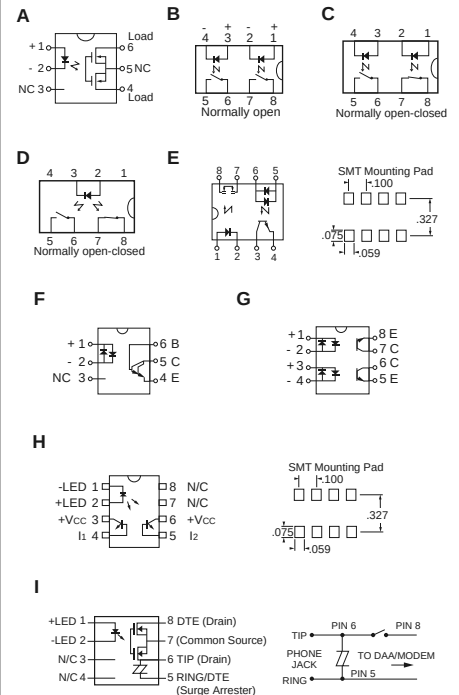
Specifications: Operating temperature: -40 to 85°C. Isolation voltage input to output; 2500 vrms. Input power dissipation at 25°C; 150mW. Reverse voltage; 5V max.

Fig. No.	Pkg.	Input* Current Min/Max	Output Current Max.	Load Voltage	Turn On/ Turn Off (mS)	Digi-Key Part No.	1	Cut Tape Pricing 25	50	Tape & Reel** Pricing 1000	CP Clare Part No.
A	6 Dip	2/100	200mA	350	5/3	CLA101-ND	4.55	96.25	157.50	—	LCA110
A	6 SMT-6	2/100	200mA	350	5/3	CLA102CT-ND†	4.65	99.31	160.88	1776.00	LCA110S
A	6 Dip	5/100	200mA	350	3/3	CLA105-ND	4.55	96.25	157.50	—	LCB110
A	6 Dip	5/100	210mA	400	1/25	CLA107-ND	4.97	105.19	172.13	—	PLA110
B	8 Dip	5/100	120mA	350	3/3	CLA103-ND	7.90	167.06	273.38	—	LAA110
C	8 Dip	5/100	120mA	350	3/3	CLA104-ND	7.90	167.06	273.38	—	LBA110
D	8 Dip	8/100	120mA	350	4/4	CLA106-ND	7.90	167.06	273.38	—	LCC110
E	8 Dip	2/6	120mA	350	3/3	CLA108-ND	7.57	160.19	262.13	—	TS117
E	Flat Pk.	2/6	120mA	350	3/3	CLA109CT-ND†	8.71	184.25	301.50	3276.00	TS117P
E	SMT-8	2/6	120mA	350	3/3	CLA110CT-ND†	7.74	163.63	267.75	2916.00	TS117S
F	6 Dip	2/6	100mA	100	3/3	CLA111-ND	3.15	66.69	109.13	—	LDA110
G	8 Dip	2/6	100mA	100	3/3	CLA112-ND	3.38	71.50	117.00	—	LDA200
H	8 Dip	1/2	120mA	350	5/2	CLA113-ND	5.23	110.69	181.13	—	LOC110
H	SMT-8	1/2	120mA	350	5/2	CLA114CT-ND†	5.53	116.88	191.25	2210.00	LOC110S
H	Flat Pk.	1/2	120mA	350	5/2	CLA115CT-ND†	5.66	119.63	195.75	2262.00	LOC110P
H	8 Dip	2/50	120mA	350	5/2	CLA116-ND	5.82	123.06	201.38	—	LOC111
H	SMT-8	2/50	120mA	350	5/2	CLA117CT-ND†	6.11	129.25	211.50	2444.00	LOC111S
H	Flat Pk.	2/50	120mA	350	5/2	CLA118CT-ND†	6.27	132.69	217.13	2509.00	LOC111P
I	8 Dip	2/50	120mA	350	5/2	CLA119-ND	7.31	154.69	253.13	—	PLCA110
I	SMT-8	2/50	120mA	350	5/2	CLA120CT-ND†	7.12	150.56	246.38	2847.00	PLCA110S
I	Flat Pk.	2/50	120mA	350	5/2	CLA121CT-ND†	7.44	157.44	257.63	2977.00	PLCA110ES

*Input Voltage - 1.2V Typical, 1.4V Max.

† CT- Cut Tape package

**Replace CT with TR in part number for Tape & Reel pricing.



1-800-344-4539

218-681-6674 • FAX: 218-681-3380 • <http://www.digikey.com>