

# Photocoupler

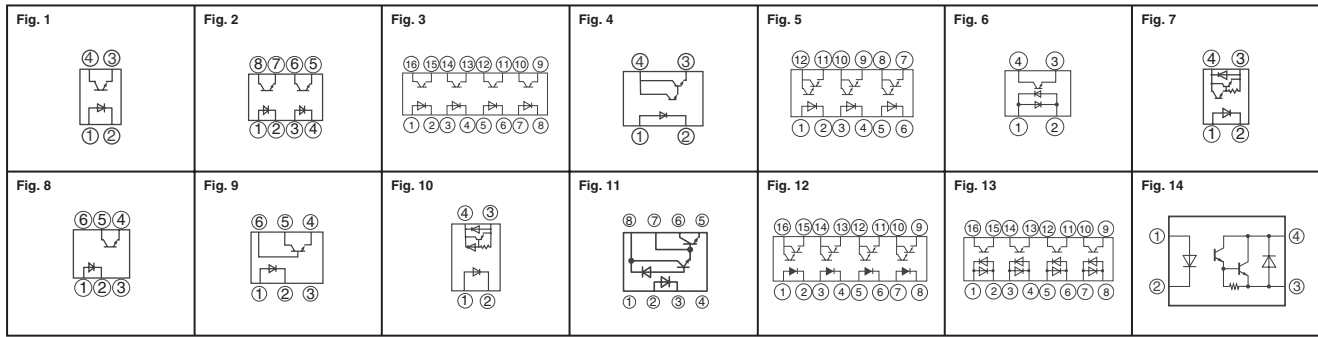


Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
	V <sub>CEO</sub> (V) Maximum	I <sub>C</sub> (mA) Maximum	Minimum (%)	Maximum (%)	@ I <sub>F</sub> (mA)	@ V <sub>CE</sub> (V)				1	10	100	
1	35	50	10	100	1	0.4	5,000	4-SMD	425-1473-5-ND	.74	.62	.50	PC8181
	35	50	10	100	1	0.4	5,000	4-Dip	425-1475-5-ND*	1.16	.93	.77	PC818Y
	35	50	20	200	1	5	5,000	8-Dip	425-1476-5-ND†	2.11	1.74	1.41	PC823
	35	50	60	120	1	0.4	5,000	4-SMD	425-1435-5-ND	1.09	.91	.73	PC810AI
	35	50	60	200	1	0.4	5,000	4-SMD	425-1436-5-ND	1.04	.83	.69	PC810I
	35	50	80	160	5	5	5,000	4-Dip	425-2185-5-ND◆	.35	.24	.18	PC817X1J000F
	35	50	80	160	5	5	5,000	4-SMD	425-2191-5-ND◆	.38	.26	.19	PC817X1J00F
	35	50	130	260	5	5	5,000	4-SMD	425-2192-5-ND◆	.38	.26	.19	PC817X12J00F
	70	50	50	150	5	5	5,000	4-Dip	425-1318-5-ND*	.58	.40	.30	PC123Y1
	70	50	50	400	0.5	5	5,000	4-Dip	425-1309-5-ND	.49	.34	.25	PC12310NSZ
	70	50	50	400	5	5	5,000	4-Dip	425-1317-5-ND*	.55	.38	.28	PC123Y
	70	50	50	400	5	5	5,000	4-Dip	425-2571-5-ND◆*	.58	.40	.30	PC123FY2J00F
70	50	50	400	5	5	5,000	4-Dip	425-2572-5-ND◆*	.46	.39	.31	PC123FY3J00F	
70	50	100	200	0.5	5	5,000	4-Dip	425-1316-5-ND	.55	.38	.28	PC123S	
80	50	100	600	0.5	80	5,000	4-Dip	425-2594-5-ND◆	.46	.32	.24	PC81716NSZ0F	
2	80	50	1,000	—	1	0.5	5,000	4-Dip	425-1509-5-ND	.55	.38	.28	PC866
3	80	50	50	600	5	5	5,000	16-Dip	425-2596-5-ND◆	1.07	.89	.72	PC847X5J000F
	300	50	40	80 Typical	5	5	5,000	16-Dip	425-1516-5-ND	4.44	3.66	2.97	PC8051
4	35	80	600	7,500	1	2	5,000	4-SMD	425-1454-5-ND*#	.94	.78	.63	PC815Y
5	35	80	600	7,500	1	2	5,000	12-Dip	425-1489-5-ND*#	1.84	1.52	1.24	PC835Y
7	350	150	1,000	4,000	1	2	5,000	4-Dip	425-2443-5-ND◆*#	.48	.40	.32	PC852XJ0000F
8	35	50	50	600	5	5	5,000	6-Dip	425-1418-5-ND	.55	.38	.28	PC714V0NSZX
	35	50	50	600	5	5	5,000	6-Dip	425-1419-5-ND*	.61	.42	.31	PC714V0YSZX
	35	80	20	80	100	2	5,000	6-Dip	425-1426-5-ND*	.64	.44	.32	PC724V0NSZX
9	35	50	50	600	5	5	5,000	6-Dip	425-1417-5-ND*	.61	.42	.31	PC713V0YSZX
10	70	30	60	120	5	5	5,000	4-Dip	425-1438-5-ND	.64	.44	.32	PC81101NSZ
	70	30	60	300	5	5	5,000	4-Dip	425-1443-5-ND	.61	.42	.31	PC81108NSZ
	70	30	100	200	5	5	5,000	4-Dip	425-1439-5-ND	.64	.44	.32	PC81102NSZ
	70	30	100	300	5	5	5,000	4-Dip	425-1442-5-ND	.61	.42	.31	PC81106NSZ
	70	30	150	300	5	5	5,000	4-Dip	425-1440-5-ND	.64	.44	.32	PC81103NSZ
11	7VCC	20	300	—	1.6	4.5	2,500	8-Dip	425-1800-5-ND	1.44	1.15	.95	PC6N138X
12	35	80	50	600	1	2	5,000	16-Dip	425-2595-5-ND◆*#	1.73	1.38	1.14	PC845XJ0000F

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	V <sub>CEO</sub> (V) Max.	I <sub>C</sub> (mA) Max.	Min. (%)	Max. (%)	@ I <sub>F</sub> (mA)	@ V <sub>CE</sub> (V)				1	10	100		Qty.	Pricing	
1	35	50	80	160	5	5	3,750	4-SMD	425-1330-1-ND	.37	.31	.25	—	—	—	PC357N1
	80	30	50	600	5	5	3,750	4-SMD	425-2508-1-ND◆	.37	.31	.25	425-2508-2-ND◆	3,000	172.79/M	PC357N0J000F
	35	30	130	260	5	5	3,750	4-SMD	425-2091-1-ND◆	.37	.31	.25	425-2091-2-ND◆	3,000	172.79/M	PC357N2J000F
	35	50	200	400	5	5	3,750	4-SMD	425-1332-1-ND	.37	.31	.25	—	—	—	PC357N3
	35	30	200	400	5	5	3,750	4-SMD	425-2092-1-ND◆	.37	.31	.25	425-2092-2-ND◆	3,000	172.79/M	PC357N3J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2531-1-ND◆	.49	.34	.25	425-2531-2-ND◆	3,000	172.79/M	PC357N6J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2532-1-ND◆	.49	.34	.25	425-2532-2-ND◆	3,000	172.79/M	PC357N7J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2533-1-ND◆	.46	.32	.24	425-2533-2-ND◆	3,000	162.63/M	PC357N9J000F
	70	50	20	400	1	5	2,500	4-SMD	425-2105-1-ND◆	.37	.31	.25	425-2105-2-ND◆	3,000	172.79/M	PC3H4J00000F
	70	50	20	400	1	5	2,500	4-SMD	425-2116-1-ND◆	.33	.28	.22	425-2116-2-ND◆	3,000	152.46/M	PC3H7J00000F
	70	50	50	400	0.5	5	5,000	4-SMD	425-1313-1-ND	.35	.29	.24	425-1313-2-ND	2,000	162.63/M	PC123P
	70	50	200	400	5	5	5,000	4-SMD	425-2530-1-ND◆*	.44	.30	.22	425-2530-2-ND◆*	2,000	81.31/M	PC123X5YUPDF
	70	50	50	400	5	5	5,000	4-SMD	425-1321-1-ND*	.35	.29	.24	425-1321-2-ND*	2,000	162.63/M	PC123ZY2
	70	50	80	160	1	5	2,500	4-SMD	425-1354-1-ND	.37	.31	.25	—	—	—	PC3H7C
	70	50	100	250	0.5	5	5,000	4-SMD	425-1315-1-ND*	.52	.44	.35	—	—	—	PC123PY2
	70	50	100	250	0.5	5	5,000	4-SMD	425-1314-1-ND	.37	.31	.25	—	—	—	PC123P2
	70	50	100	500	0.5	5	3,750	4-SMD	425-2101-1-ND◆	.37	.31	.25	425-2101-2-ND◆	3,000	172.79/M	PC367NJ0000F
	70	50	150	300	0.5	5	3,750	4-SMD	425-2099-1-ND◆	.41	.35	.28	425-2099-2-ND◆	3,000	193.12/M	PC367N1J000F
	70	50	100	600	0.5	5	5,000	4-SMD	425-1383-1-ND	.41	.35	.28	425-1383-2-ND	2,000	193.12/M	PC81710NIP
	70	50	100	600	0.5	5	5,000	4-SMD	425-2176-1-ND◆	.41	.35	.28	425-2176-2-ND◆	2,000	193.12/M	PC81710NIPDF
	70	50	100	700	0.5	5	2,500	4-SMD	425-2108-1-ND◆	.39	.33	.27	425-2108-2-ND◆	3,000	182.96/M	PC3H710NIPDF
	70	50	120	300	0.5	5	5,000	4-SMD	425-1457-1-ND	.44	.37	.30	—	—	—	PC81711NIP
	70	50	140	500	0.5	5	2,500	4-SMD	425-1351-1-ND	.44	.37	.30	—	—	—	PC3H715NIP
	70	50	160	400	0.5	5	5,000	4-SMD	425-1459-1-ND	.44	.37	.30	425-1459-2-ND	2,000	203.28/M	PC81712NIP
	80	50	100	600	0.5	5	5,000	4-SMD	425-2538-1-ND◆	.55	.38	.28	425-2538-2-ND◆	2,000	193.12/M	PC81716NIPDF
	70	50	200	500	0.5	5	2,500	4-SMD	425-1350-1-ND	.44	.37	.30	—	—	—	PC3H712NIP

◆ RoHS Compliant † AC Input # Darlington Output \* Din/VDE 0884

(Continued)

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**N**

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	V <sub>CEO</sub> (V) Max.	I <sub>C</sub> (mA) Max.	Min. (%)	Max. (%)	@ I <sub>F</sub> (mA)	@ V <sub>CE</sub> (V)				1	10	100		Qty.	Pricing	
1	350	50	40	600	5	5	5,000	4-SMD	425-2539-1-ND◆	.67	.46	.34	425-2539-2-ND◆	2,000	233.77/M	PC851XPJ000F
	80	50	50	600	5	5	3,750	4-SMD	425-2577-1-ND◆	.44	.37	.30	425-2577-2-ND◆	750	152.46	PC357NOTJ00F
	80	50	50	600	5	5	3,750	4-SMD	425-2578-1-ND◆	.44	.37	.30	425-2578-2-ND◆	750	152.46	PC357N1TJ00F
	80	50	50	600	5	5	3,750	4-SMD	425-2579-1-ND◆	.44	.37	.30	425-2579-2-ND◆	750	152.46	PC357N2TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2580-1-ND◆	.44	.37	.30	425-2580-2-ND◆	750	152.46	PC357N4TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2581-1-ND◆	.44	.37	.30	425-2581-2-ND◆	750	152.46	PC357N6TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2582-1-ND◆	.44	.37	.30	425-2582-2-ND◆	750	152.46	PC357N7TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2583-1-ND◆	.44	.37	.30	425-2583-2-ND◆	750	152.46	PC357N9TJ00F
	80	50	100	500	0.5	5	3,750	4-SMD	425-2584-1-ND◆	.39	.33	.27	425-2584-2-ND◆	750	137.21	PC367NTJ000F
	80	50	20	400	1	5	2,500	4-SMD	425-2585-1-ND◆	.35	.29	.24	425-2585-2-ND◆	3,000	162.63/M	PC37CDJ000F
4	35	80	600	7,500	1.0	2	3,750	4-SMD	425-1326-1-ND◆	.52	.44	.35	—	—	—	PC355N
	35	80	600	7,500	1	2	3,750	4-SMD	425-2576-1-ND◆#	.61	.51	.41	425-2576-2-ND◆#	750	198.20	PC355NTJ000F
	35	80	600	12,000	0.5	2	3,750	4-SMD	425-1337-1-ND◆	.44	.37	.30	—	—	—	PC365N
	35	80	600	12,000	0.5	2	2,500	4-SMD	425-2106-1-ND◆#	.50	.42	.34	425-2106-2-ND◆#	3,000	233.78/M	PC35H10NIPDF
6	35	50	50	150	1.0	5	3,750	4-SMD	425-1325-1-ND†	.52	.44	.35	425-1325-2-ND†	3,000	243.94/M	PC354N1
	80	50	20	400	1	5	3,750	4-SMD	425-2574-1-ND◆†	.52	.44	.35	425-2574-2-ND◆†	750	182.95	PC354N1TJ00F
	80	50	20	400	1	5	3,750	4-SMD	425-2575-1-ND◆†	.39	.33	.27	425-2575-2-ND◆†	750	137.21	PC354NTJ000F
	70	50	50	400	0.5	5	3,750	4-SMD	425-1335-1-ND†	.50	.42	.34	—	—	—	PC364N
	70	50	50	400	0.5	5	2,500	4-SMD	425-1342-1-ND†	.50	.42	.34	—	—	—	PC3410NIP
	70	50	100	300	0.5	5	3,750	4-SMD	425-1336-1-ND†	.52	.44	.35	425-1336-2-ND†	3,000	243.94/M	PC364N1
7	350	150	1,000	12,000	1	2	3,750	4-SMD	425-2591-1-ND◆#	1.40	1.12	.93	425-2591-2-ND◆#	750	534.56	PC452TJ0000F
	350	150	1,000	4,000	1	2	5,000	4-SMD	425-2660-1-ND◆#	.57	.48	.38	425-2660-2-ND◆#	2,000	264.27/M	PC853XPJ000F
8	35	80	20	80	100	2	5,000	6-SMD	425-1382-1-ND	.57	.48	.38	—	—	—	PC724VONIPX
13	70	50	50	150	1	5	2,500	4-SMD	425-1344-1-ND†	.39	.33	.27	425-1344-2-ND†	3,000	182.96/M	PC344A
14	350	150	1,000	12,000	1	2	5,000	4-SMD	425-2540-1-ND◆#*	.70	.48	.35	425-2540-2-ND◆#*	2,000	243.94/M	PC852XPJ000F

◆ RoHS Compliant † AC Input # Darlington Output \* Din/VDE 0884

## OPIC™ Photocoupler

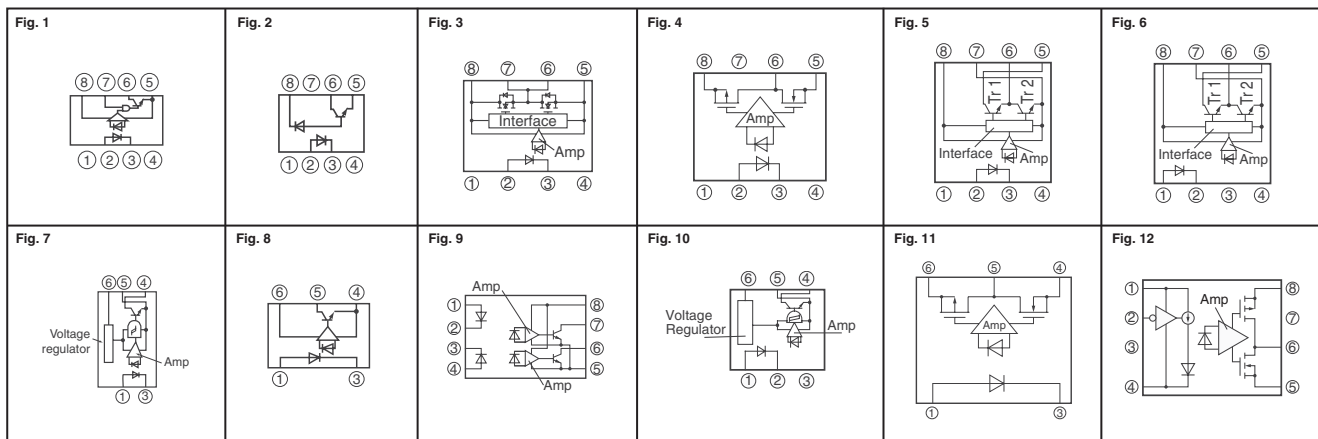


Fig.	V <sub>cc</sub> Max. (V)	Prop Delay (μs) Typ.		Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
		H-L	L-H		Length	Width	Pitch			1	10	100	
<b>Tube</b>													
1	7	0.048	0.05	5,000	9.66	6.5	2.54	8-Dip	425-1534-5-ND*	1.52	1.22	1.01	PC910L0YSZ
	7	0.048	0.05	5,000	9.66	6.5	2.54	8-Dip	425-2208-5-ND◆*	1.52	1.22	1.01	PC910L0YSZ0F
2	30	0.2	0.6	5,000	9.66	6.5	2.54	8-Dip	425-1547-5-ND*	1.34	1.07	.89	PC957L0YSZ
	30	0.2	0.4	5,000	9.66	6.5	2.54	8-Dip	425-2213-5-ND◆*	1.34	1.07	.89	PC957L0YSZ0F
3	35	0.3	0.3	5,000	9.66	6.5	2.54	8-Dip	425-2542-5-ND◆	1.46	1.17	.97	PC925L0NSZ0F
4	6	0.06	0.06	5,000	9.66	6.5	2.54	8-Dip	425-2597-5-ND◆*	1.79	1.44	1.19	PC911L0NSZ0F
5	30	0.5	0.5	5,000	9.66	6.5	2.54	8-Dip	425-2598-5-ND◆*	1.07	.87	.72	PC923L0NSZ0F
6	30	2.0	2.0	5,000	9.66	6.5	2.54	8-Dip	425-2599-5-ND◆*	.94	.76	.63	PC924L0NSZ0F

Fig.	V <sub>cc</sub> Max. (V)	Prop Delay (μs) Typ.		Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
		H-L	L-H		Length	Width	Pitch			1	10	100		Qty.	Pricing	
<b>Cut Tape/Tape and Reel</b>																
1	7	0.048	0.05	3,750	5.080	3.937	1.27	8-SMD	425-2534-1-ND◆*	1.73	1.38	1.14	425-2534-2-ND◆*	1,500	965.08/M	PC410S0NIP0F
2	30	0.3	0.3	3,750	5.080	3.937	1.27	8-SMD	425-2535-1-ND◆*	1.22	.98	.81	425-2535-2-ND◆*	1,500	623.43/M	PC457S0NIP0F
7	15	2.0	1.0	3,750	3.6	4.4	1.27	5-SOP	425-1521-1-ND	1.23	.99	.75	425-1521-2-ND	3,000	629.45/M	PC401
	15	2.0	1.0	3,750	3.6	4.4	1.27	5-SOP	425-2143-1-ND◆	1.23	.99	.75	425-2143-2-ND◆	3,000	629.45/M	PC401J00000F
8	7	0.048	0.05	3,750	3.6	4.4	1.27	5-SOP	425-2141-1-ND◆	1.27	1.02	.77	425-2141-2-ND◆	3,000	647.96/M	PC410L0NIP0F
	35	.21	0.4	3,750	3.6	4.4	1.27	5-SMD	425-2592-1-ND◆*	1.37	1.10	.91	425-2592-2-ND◆*	3,000	700.81/M	PC456L0NIP0F
9	7	0.048	0.05	3,750	5.080	3.937	1.27	8-SMD	425-2536-1-ND◆*	2.40	1.98	1.61	425-2536-2-ND◆*	1,500	1354.00/M	PC4D10SNIP0F
10	16	1.0	2.0	5,000	7.12	6.5	2.54	6-SMD	425-2541-1-ND◆*	.89	.75	.60	425-2541-2-ND◆*	1,000	386.96	PC900V0NIPXF
11	6.0	0.027	0.035	3,750	3.6	4.4	1.27	5-SMD	425-2588-1-ND◆*	1.55	1.36	1.09	425-2588-2-ND◆*	3,000	950.54/M	PC411L0NIP0F
	6.0	0.027	0.035	3,750	3.6	4.4	1.27	5-SMD	425-2589-1-ND◆*	1.63	1.43	1.14	425-2589-2-ND◆*	3,000	1030.88/M	PC411L0YIP0F
12	5.5	0.023	0.022	3,750	5.080	3.937	1.27	8-SMD	425-2590-1-ND◆*	1.92	1.68	1.35	425-2590-2-ND◆*	3,000	1173.95/M	PC412S0NIP0F

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