

Photo Transistor Output Optoisolators

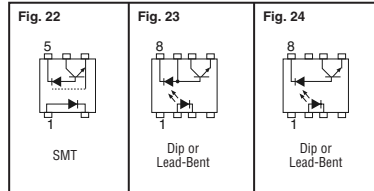


Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	I <sub>on</sub> /I <sub>off</sub> (μsec.) (Typ.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
1	5000	80 - 600%	80	3/5	DIP	PS2501-1A-ND	30	26	22			
	5000	80 - 160%	80	3/5	DIP	PS2501-1-HA-ND	26	22	19			
	5000	200 - 400%	80	3/5	DIP	PS2501-1-LA-ND	26	22	19			
	5000	50 - 400%	70	5/7	DIP	PS2501A-1-A-ND	21	18	16			
	5000	50 - 400%	70	5/7	SMT	PS2501AL-1-ND	26	22	19	PS2501AL-1TR-ND	1,000	152.46
	5000	80 - 600%	80	3/5	SMT	PS2501L-1A-ND	37	31	27			
	5000	80 - 160%	80	3/5	SMT	PS2501L-1-HA-ND	36	30	25			
	5000	50 - 200%	120	5/25	DIP	PS2513-1-A-ND	52	43	37			
	5000	20 - 80%	80	3/5	DIP	PS2521-1-A-ND	79	67	56			
	5000	20 - 80%	80	3/5	SMT	PS2521L-1CT-ND	87	73	62	PS2521L-1TR-ND	1,000	435.60
	5000	80 - 400%	80	3/5	DIP	PS2561-1A-ND	41	35	30			
	5000	80 - 400%	80	3/5	DIP	PS2561-1-VA-ND	41	35	30			
	5000	50 - 300%	70	5/7	DIP	PS2561A-1-A-ND	20	17	14			
	5000	80 - 160%	70	5/7	SMT	PS2561AL-1-HA-ND	23	19	16			
	5000	50 - 300%	70	5/7	SMT	PS2561AL-1CT-ND	24	20	17	PS2561AL-1TR-ND	2,000	119.79/M
	5000	50 - 400%	80	3/5	DIP	PS2561B-1-A-ND	42	35	30			
	5000	80 - 400%	80	3/5	SMT	PS2561L-1A-ND	46	39	33			
	5000	80 - 160%	80	3/5	SMT	PS2561L-1-HA-ND	37	31	26			
	5000	80 - 400%	80	3/5	SMT	PS2561L-1-VA-ND	46	39	33			
	5000	80 - 400%	80	3/5	DIP	PS2561L1-1-VA-ND	46	39	33			
5000	200%	80	3/5	SMT	PS2561L2-1-VA-ND	46	39	33				
5000	80 - 160%	80	3/5	DIP	PS2581L-1-HA-ND	36	30	26				
3750	150 - 300%	40	3/5	SOP	PS2701-1A-ND	41	35	29	PS2701-1ATR-ND	3,500	148.11/M	
3750	150 - 300%	40	3/5	SOP	PS2701-1-P-A-ND	34	29	25				
3750	50 - 300%	70	5/7	SOP	PS2701A-1-ND	30	26	22	PS2701A-1TR-ND	3,500	131.77/M	
3750	150 - 300%	70	5/7	SOP	PS2701A-1-P-A-ND	30	26	22				
3750	50 - 400%	120	10/10	SOP	PS2703-1A-ND	48	40	34	PS2703-1ATR-ND	3,500	204.74/M	
3750	200 - 400%	120	10/10	SOP	PS2703-1-K-A-ND	43	36	31				
3750	50 - 150%	120	10/10	SOP	PS2703-1-M-A-ND	43	36	31				
3750	100 - 200%	40	4/5	SOP	PS2711-1-M-A-ND	45	38	32				
3750	50 - 400%	40	4/5	SOP	PS2761-1ACT-ND	54	45	38	PS2761-1ATR-ND	3,500	266.81/M	
2500	80 - 600%	80	3/5	SSOP	PS2801-1ACT-ND	54	46	39	PS2801-1ATR-ND	3,500	272.26/M	
2500	100 - 300%	80	3/5	SOP	PS2801-1-L-A-ND	46	38	33				
2500	50 - 400%	70	5/7	SSOP	PS2801A-1-ND	46	39	33	PS2801A-1TR-ND	3,500	228.70/M	
2500	100 - 400%	40	4/5	SSOP	PS2811-1ACT-ND	52	44	37	PS2811-1ATR-ND	3,500	259.19/M	
2500	100 - 400%	40	4/5	Mini-Flat	PS2911-1ACT-ND	83	69	59	PS2911-1ATR-ND	3,500	413.82/M	
2500	200%	40	40/120	Mini-Flat	PS2911-1-K-A-ND	87	73	62				
2500	100 - 200%	40	4/5	Mini-Flat	PS2911-1-M-A-ND	87	73	62				
2500	50 - 100%	120	5/50	Mini-Flat	PS2913-1-ND	1.01	85	71	PS2913-1TR-ND	3,500	480.25/M	
2500	50 - 100%	120	5/50	Mini-Flat	PS2913-1-M-A-ND	1.01	85	71				
2	5000	80 - 600%	80	3/5	DIP	PS2501-2A-ND	82	69	58			
	5000	80 - 600%	80	3/5	SMT	PS2501L-2A-ND	89	75	63			
	3750	50 - 400%	120	10/10	SOP	PS2703-2-ND	1.05	88	74			
3	5000	80 - 600%	80	3/5	DIP	PS2501-4A-ND	1.42	1.18	1.00			
	5000	80 - 600%	80	3/5	SMT	PS2501L-4A-ND	1.48	1.24	1.05			
	2500	100 - 400%	80	3/5	SSOP	PS2801-4A-ND	2.25	2.03	1.73	PS2801-4ATR-ND	2,500	1085.38/M
4	5000	200 - 2000%	40	100/100	DIP	PS2502-1A-ND	54	45	38			
	5000	200 - 2000%	40	100/100	DIP	PS2562-1-A-ND	74	62	53			
	5000	200 - 2000%	40	100/100	SMT	PS2562L-1-ND	65	54	46	PS2562L-1TR-ND	2,000	321.26/M
	3750	200 - 2000%	40	200/200	SOP	PS2702-1A-ND	56	47	40	PS2702-1ATR-ND	3,500	326.70/M
	2500	200 - 2000%	40	200/200	SSOP	PS2802-1ACT-ND	79	66	56	PS2802-1ATR-ND	3,500	395.31/M
5	5000	200 - 2000%	40	100/100	DIP	PS2502-2A-ND	1.29	1.08	91			
	5000	200 - 2000%	40	100/100	DIP	PS2502-4A-ND	2.00	1.80	1.54			
6	2500	200 - 2000%	40	200/200	SSOP	PS2802-4A-ND	2.85	2.57	2.19	PS2802-4ATR-ND	2,500	1047.62/M
	5000	100 - 400%	40	20/30	DIP	PS2503-1-A-ND	68	57	48			
7	5000	100 - 400%	40	20/30	SMT	PS2503L-1A-ND	72	60	51	PS2503L-1ATR-ND	1,000	359.37
	2500	50 - 400%	40	4/5	SSOP	PS2865-1A-ND	69	58	49	PS2865-1ATR-ND	3,500	323.44/M
8	5000	100 - 400%	40	20/30	DIP	PS2503-2-A-ND	1.36	1.14	96			
	5000	100 - 400%	40	20/30	SMT	PS2503L-2-A-ND	1.40	1.17	99			
9	5000	100 - 400%	40	20/30	DIP	PS2503-4-A-ND	2.07	1.87	1.59			
	5000	100 - 400%	40	20/30	SMT	PS2503L-4-A-ND	2.11	1.90	1.62			
	5000	80 - 600%	80	3/5	DIP	PS2505-1A-ND	31	26	22			
10	5000	80 - 600%	80	3/5	SMT	PS2505L-1A-ND	44	37	31			
	5000	20 - 80%	80	3/5	DIP	PS2525-1-A-ND	95	80	67			
	5000	80 - 400%	80	3/5	DIP	PS2565-1A-ND	50	42	36			
	5000	80 - 400%	80	3/5	DIP	PS2565-1-VA-ND	50	42	36			
	5000	80 - 400%	80	3/5	SMT	PS2565L-1A-ND	52	44	37			
	5000	80 - 400%	80	3/5	SMT	PS2565L-1-VA-ND	52	44	37			
11	3750	50 - 300%	40	3/5	SOP	PS2705-1A-ND	50	42	36	PS2705-1ATR-ND	3,500	250.48/M
	3750	50 - 300%	70	5/7	SOP	PS2705A-1-ND	33	28	23	PS2705A-1TR-ND	3,500	141.58/M
	3750	50 - 400%	40	4/5	SOP	PS2765-1A-ND	65	54	46	PS2765-1ATR-ND	3,500	292.94/M
	2500	80 - 600%	80	3/5	SSOP	PS2805-1ACT-ND	66	55	47	PS2805-1ATR-ND	3,500	329.97/M
	2500	50 - 400%	70	5/7	SSOP	PS2805A-1-ND	54	46	39	PS2805A-1TR-ND	3,500	272.26/M
12	2500	100 - 400%	40	4/5	Mini-Flat	PS2915-1CT-ND	86	72	61	PS2915-1TR-ND	3,500	490.06/M
	2500	100 - 400%	40	4/5	Mini-Flat	PS2915-1ACT-ND	1.10	93	78	PS2915-1ATR-ND	3,500	552.13/M
	5000	80 - 600%	80	3/5	DIP	PS2505-2A-ND	1.02	85	72			
	5000	80 - 600%	80	3/5	SMT	PS2505L-2A-ND	1.15	96	81			
	5000	80 - 600%	80	3/5	DIP	PS2505-4A-ND	1.96	1.64	1.38			
13	5000	80 - 600%	80	3/5	SMT	PS2505L-4A-ND	1.55	1.39	1.19			
	2500	80 - 600%	80	3/5	SSOP	PS2805-4A-ND	3.62	3.26	2.77			
	2500	50 - 400%	70	5/7	SSOP	PS2805A-4A-ND	2.45	2.21	1.88			
	2500	100 - 400%	40	4/5	SSOP	PS2815-4A-ND	2.45	2.21	1.88	PS2815-4ATR-ND	2,500	1255.26/M
	5000	200 - 2000%	40	100/100	DIP	PS2506-1A-ND	72	60	51			
14	5000	200 - 2000%	40	100/100	DIP	PS2566-1-A-ND	74	62	53			
	5000	200 - 2000%	40	100/100	SMT	PS2566L-1-ND	78	65	55	PS2566L-1TR-ND	2,000	362.64/M
	3750	200 - 2000%	40	200/200	SOP	PS2706-1-ND	76	64	54	PS2706-1TR-ND	3,500	332.15/M
	2500	200 - 2000%	40	200/200	SOP	PS2806-1ACT-ND	99	83	70	PS2806-1ATR-ND	3,500	493.32/M
	5000	200 - 2000%	40	100/100	DIP	PS2506-2A-ND	1.43	1.20	1.01			
15	5000	200 - 2000%	40	100/100	DIP	PS2506-4A-ND	2.45	2.21	1.88			
	2500	200 - 2000%	40	200/200	SSOP	PS2806-4A-ND	4.49	4.04	3.44			
	2500	200 - 2000%	40	200/200	SSOP	PS2806-4A-ND	4.49	4.04	3.44	PS2806-4ATR-ND	2,500	2142.43/M
16	5000	1500 - 6500%	300	100/100	DIP	PS2532-1A-ND	71	60	51			
	5000	1500 - 6500%	300	100/100	SMT	PS2532L-1A-ND	76	63	53			
	2500	1500 - 4000%	300	100/100	SOP	PS2732-1-ND	95	80	67	PS2732-1TR-ND	3,500	392.04/M
	2500	1500 - 4000%	350	100/100	SOP	PS2733-1A-ND	1.23	1.02	87	PS2733-1ATR-ND	3,500	590.24/M
	2500	400 - 4500%	350	20/5	SSOP	PS2833-1A-ND	1.46	1.22	1.03	PS2833-1ATR-ND	3,500	705.68/M
17	2500	400 - 4500%	350	20/5	Mini-Flat	PS2933-1-ND	1.51	1.26	1.07	PS2933-1TR-ND		

**High Linearity Diode Output Optoisolator (Surface Mount)**



Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity Δ (K2/K1) (for Vcc=15V, Ii=2-10mA)	Digi-Key Part No.	1	10	100	Price Each
21	1500	.733-1.072	<1%	PS8741-A-ND	2.98	2.68	2.29	



**High Speed Analog Output Optoisolators**



Fig.	Isolation Voltage	CTR	Vcc (Max.)	Typical Propagation Delay (μs)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
22	2500	20% - 35%	35	0.5 / 0.6	SOP	PS8101-K-A-ND	1.74	1.46	1.23	—	—	—
	2500	10% - 30%	15	1 / 2	SOP	PS8103-ND	1.42	1.19	1.00	PS8103TR-ND	2,500	696.96/M
23	5000	>15%	35	0.5 / 0.3	SMT	PS8601L-A-ND	1.50	1.26	1.06	—	—	—
	5000	>15%	35	0.5 / 0.3	DIP	PS8602-A-ND	1.79	1.50	1.27	—	—	—
24	2500	15% - 35%	35	0.3 / 0.6	SSOP	PS8802-1CT-ND\$	1.44	1.20	1.02	PS8802-1TR-ND	1,500	718.74/M
	2500	20% - 40%	3.3	0.3/0.5	SSOP	PS8821-1-A-ND	1.68	1.40	1.19	—	—	—
25	2500	15% - 35%	35	0.3 / 0.6	SSOP	PS8802-2CT-ND\$	2.24	2.01	1.72	PS8802-2TR-ND	1,500	1160.88/M
	2500	20% - 40%	3.3	0.3/0.5	SSOP	PS8821-2-A-ND	2.87	2.59	2.20	—	—	—

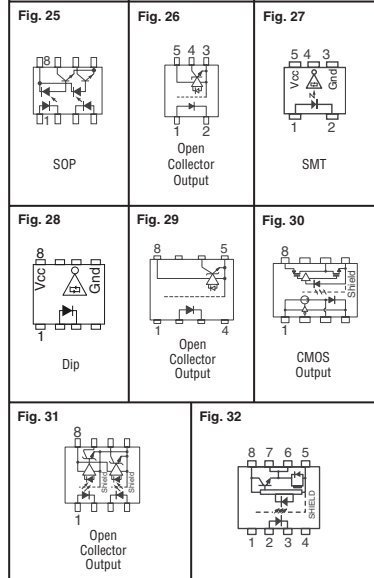
§ Cut Tape

**High Speed Digital Photocouplers**



Fig.	Output Type	Isolation Voltage	Prop. Delay tPHL	tPLH	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
26	OC	2500	250ns	520ns	SOP	PS9113-ND	2.60	2.34	1.99	PS9113TR-ND	2,500	1330.76/M
	OC	2500	54ns	51ns	SOP	PS9114CT-ND\$	2.64	2.37	2.02	—	—	—
	OC	2500	54ns	51ns	SOP	PS9114-ND	2.61	2.36	2.01	—	—	—
	OC	2500	40ns	45ns	SMT	PS9121-ND	2.13	1.92	1.63	PS9121TR-ND	2,500	1075.94/M
27	TP	2500	33ns	40ns	SOP	PS9115-ND	2.61	2.36	2.01	PS9115TR-ND	2,500	1340.20/M
	OC	2500	54ns	51ns	SSOP	PS9814-2CT-ND\$	2.34	2.11	1.80	PS9814-2TR-ND	1,500	1217.50/M
29	OC	3750	61ns	51ns	SMT	PS9614L-ND	1.82	1.64	1.40	PS9614L-TR-ND	1,000	940.97
	OC	2500	40ns	45ns	SSOP	PS9817-1-ND	1.76	1.47	1.11	PS9817-1TR-ND	1,500	742.78/M
30	OC	2500	54ns	51ns	SSOP	PS9814-1CT-ND\$	1.43	1.29	1.09	—	—	—
	OC	2500	40ns	45ns	SSOP	PS9817-2-ND	2.29	2.06	1.76	—	—	—
31	OC	2500	45ns	50ns	SSOP	PS9821-2-ND	2.50	2.26	1.93	PS9821-2TR-ND	1,500	1651.66/M
	TP	5000	300ns	300ns	SMD	PS9552L2-AX-ND	2.40	2.16	1.84	—	—	—
32	TP	5000	300ns	300ns	SMD	PS9552L3-AX-ND	2.40	2.16	1.84	—	—	—

§ Cut Tape



**VISHAY Semiconductor Optocouplers**

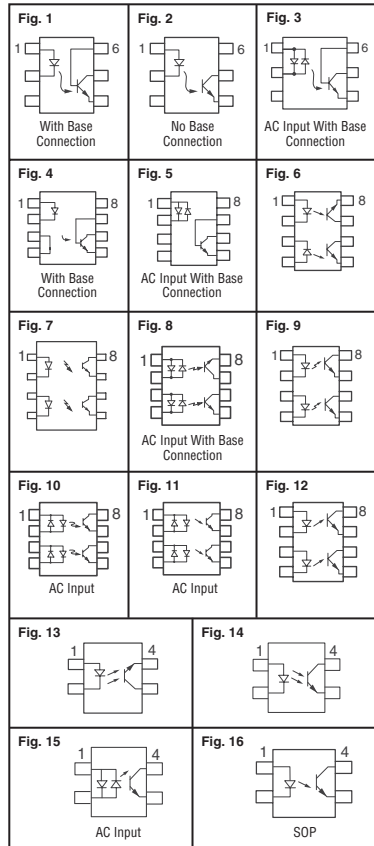


**Phototransistor Output Optocouplers**



Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						1	10	100		Qty.	Pricing	
1	5300	>20%	70	6-DIP	751-1259-5-ND	.50	.37	.30	—	—	—	4N38
	5300	40 - 80%	70	6-DIP	751-1265-5-ND	.54	.40	.32	—	—	—	CNY17-1
	5300	63 - 125%	70	6-DIP	751-1266-5-ND	.54	.40	.32	—	—	—	CNY17-2
	5300	100 - 200%	70	6-DIP	751-1267-5-ND	.54	.40	.32	—	—	—	CNY17-3
	5300	160 - 320%	70	6-DIP	751-1268-5-ND	.54	.40	.32	—	—	—	CNY17-4
	5300	>50%	70	6-DIP	751-1273-5-ND	.60	.47	.37	—	—	—	H11A1
	5300	>20%	70	6-DIP	751-1274-5-ND	.60	.47	.37	—	—	—	H11A2
	5300	>20%	70	6-DIP	751-1275-5-ND	.60	.47	.37	—	—	—	H11A3
	5300	>20%	300	6-DIP	751-1278-5-ND	1.26	1.09	.84	—	—	—	H11D1
	5300	>20%	200	6-DIP	751-1279-5-ND	1.03	.83	.69	—	—	—	H11D3
2	5300	>20%	50	6-DIP	751-1280-5-ND	.80	.63	.49	—	—	—	IL1
	5300	>100%	70	6-DIP	751-1281-5-ND	.73	.63	.49	—	—	—	IL2
	5300	50 - 80%	30	6-DIP	751-1337-5-ND	.50	.40	.31	—	—	—	MOC8101
	5300	73 - 117%	30	6-DIP	751-1338-5-ND	.50	.40	.31	—	—	—	MOC8102
	5300	108 - 173%	30	6-DIP	751-1339-5-ND	.50	.40	.31	—	—	—	MOC8103
	5300	160 - 256%	30	6-DIP	751-1340-5-ND	.50	.40	.31	—	—	—	MOC8104
	5300	40 - 80%	70	6-DIP	751-1269-5-ND	.54	.40	.32	—	—	—	CNY17F-1
	5300	63 - 125%	70	6-DIP	751-1270-5-ND	.54	.40	.32	—	—	—	CNY17F-2
	5300	100 - 200%	70	6-DIP	751-1271-5-ND	.54	.40	.32	—	—	—	CNY17F-3
	5300	160 - 320%	70	6-DIP	751-1272-5-ND	.54	.40	.32	—	—	—	CNY17F-4
3	5300	>20%	30	6-DIP	751-1276-5-ND	.89	.72	.60	—	—	—	H11AA1
	5300	>20%	30	6-DIP	751-1290-5-ND	1.17	.94	.78	—	—	—	IL252
	4000	40 - 80%	70	8-SOIC	751-1282-1-ND\$	.77	.60	.52	751-1282-2-ND	2,000	238.86/M	IL205AT
4	4000	63 - 125%	70	8-SOIC	751-1283-1-ND\$	.77	.60	.52	751-1283-2-ND	2,000	238.86/M	IL206AT
	4000	100 - 200%	70	8-SOIC	751-1284-1-ND\$	.77	.60	.52	751-1284-2-ND	2,000	238.86/M	IL207AT
	4000	160 - 320%	70	8-SOIC	751-1285-1-ND\$	.77	.60	.52	751-1285-2-ND	2,000	238.86/M	IL208AT
	4000	>20%	70	8-SOIC	751-1286-1-ND\$	.77	.60	.52	751-1286-2-ND	2,000	238.86/M	IL211AT
	4000	>100%	70	8-SOIC	751-1287-1-ND\$	.77	.60	.52	751-1287-2-ND	2,000	238.86/M	IL213AT
	4000	>100%	30	8-SOIC	751-1288-1-ND\$	.80	.64	.54	751-1288-2-ND	2,000	250.91/M	IL217AT
	4000	>20%	30	8-SOIC	751-1291-1-ND\$	.96	.76	.65	751-1291-2-ND	2,000	300.89/M	IL256AT
	5300	>20%	30	8-DIP	751-1305-5-ND	.70	.61	.47	—	—	—	ILCT6
	5300	>20%	50	8-DIP	751-1306-5-ND	1.06	.85	.71	—	—	—	ILD1
	5300	>100%	70	8-DIP	751-1307-5-ND	1.11	.97	.75	—	—	—	ILD2
6	5300	>50%	70	8-DIP	751-1318-5-ND	1.40	1.10	.92	—	—	—	ILD5
	5300	35%	20	8-DIP	751-1326-5-ND	1.26	1.01	.84	—	—	—	ILD74
	5300	>20%	30	8-DIP	751-1336-5-ND	.91	.74	.62	—	—	—	MCT6
	4000	40 - 80%	70	8-SOIC	751-1308-1-ND\$	1.05	.84	.71	751-1308-2-ND	2,000	330.30/M	ILD205T
	4000	63 - 125%	70	8-SOIC	751-1309-1-ND\$	1.05	.84	.71	751-1309-2-ND	2,000	330.30/M	ILD206T
	4000	100 - 200%	70	8-SOIC	751-1310-1-ND\$	1.05	.84	.71	751-1310-2-ND	2,000	330.30/M	ILD207T
	4000	>20%	70	8-SOIC	751-1311-1-ND\$	1.05	.84	.71	751-1311-2-ND	2,000	330.30/M	ILD211T
	4000	>100%	70	8-SOIC	751-1312-1-ND\$	1.05	.84	.71	751-1312-2-ND	2,000	330.30/M	ILD213T
	4000	>100%	70	8-SOIC	751-1313-1-ND\$	1.12	.89	.76	751-1313-2-ND	2,000	350.88/M	ILD217T
	8	5300	>50%	30	8-DIP	751-1315-5-ND	2.25	1.77	1.48	—	—	—
5300		>100%	30	8-DIP	751-1316-5-ND	2.50	2.18	1.63	—	—	—	ILD252
5300		63 - 125%	70	8-DIP	751-1320-5-ND	1.26	1.01	.84	—	—	—	ILD615-2
9	5300	100 - 200%	70	8-DIP	751-1321-5-ND	1.25	1.00	.84	—	—	—	ILD615-3
	5300	160 - 320%	70	8-DIP	751-1322-5-ND	1.28	1.03	.86	—	—	—	ILD615-4

§ Cut Tape



(Continued)

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