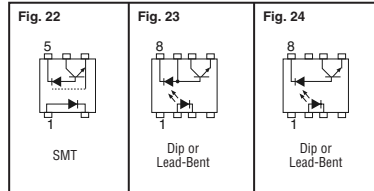


High Linearity Diode Output Optoisolator (Surface Mount)



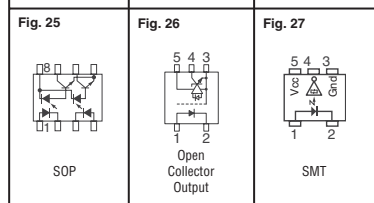
Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity Δ (K2/K1) (for Vcc=15V, Ii=2-10mA)	Digi-Key Part No.	1	10	100	Price Each
21	1500	.733-1.072	<1%	PS8741-A-ND	2.98	2.68	2.29	



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	—	—	—

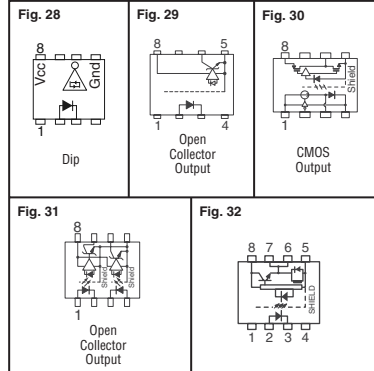


§ Cut Tape

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
28	OC	2500	54ns	51ns	SSOP	PS9814-2CT-ND\$	2.34	2.11	1.80	PS9814-2TR-ND	1,500	1217.50/M
	OC	3750	61ns	51ns	SMT	PS9614L-ND	1.82	1.64	1.40	PS9614L-ND	1,000	940.97
29	OC	2500	40ns	45ns	SSOP	PS9817-1-ND	1.76	1.47	1.11	PS9817-1TR-ND	1,500	742.78/M
	OC	2500	54ns	51ns	SSOP	PS9814-1CT-ND\$	1.43	1.29	1.09	—	—	—
30	OC	2500	40ns	45ns	SSOP	PS9817-2-ND	2.29	2.06	1.76	—	—	—
	OC	2500	45ns	50ns	SSOP	PS9821-2-ND	2.50	2.26	1.93	PS9821-2TR-ND	1,500	1651.66/M
31	OC	5000	300ns	300ns	SMD	PS9552L2-AX-ND	2.40	2.16	1.84	—	—	—
	TP	5000	300ns	300ns	SMD	PS9552L3-AX-ND	2.40	2.16	1.84	—	—	—



§ Cut Tape

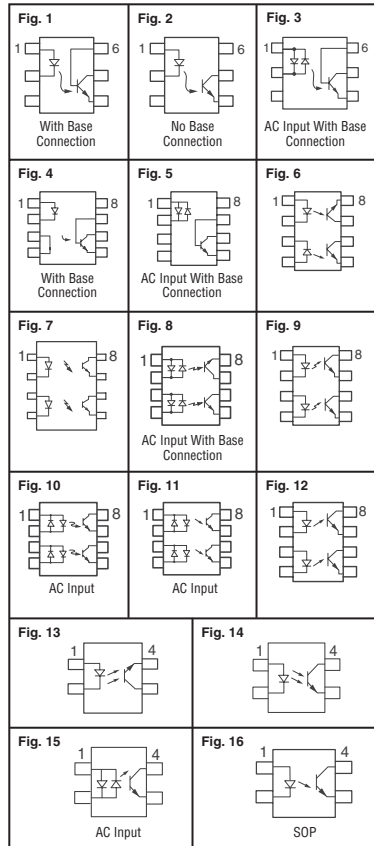
VISHAY Semiconductor Optocouplers



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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Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel Pricing		Vishay Part No.
						1	10	100		Qty.	2,000	
10	4000	>20%	70	8-SOIC	751-1317-1-ND	1.47	1.16	.99	751-1317-2-ND	2,000	460.65/M	ILD25GT
	5300	>50%	70	8-DIP	751-1323-5-ND	1.54	1.21	1.02	---	---	---	ILD20
	5300	>100%	70	8-DIP	751-1324-5-ND	1.71	1.34	1.13	---	---	---	ILD620GB
11	5300	>100%	70	8-DIP	751-1325-5-ND	1.19	.93	.78	---	---	---	ILD621GB
	5300	40 - 80%	70	4-DIP	751-1341-5-ND	.80	.63	.49	---	---	---	SFH610A-1
	5300	63 - 125%	70	4-DIP	751-1342-5-ND	.70	.61	.47	---	---	---	SFH610A-2
	5300	100 - 200%	70	4-DIP	751-1343-5-ND	.70	.61	.47	---	---	---	SFH610A-3
12	5300	160 - 320%	70	4-DIP	751-1344-5-ND	.70	.61	.47	---	---	---	SFH610A-4
	5300	40 - 80%	70	4-SMD	751-1345-1-ND	.63	.50	.43	751-1345-2-ND	1,000	218.31	SFH6156-1T
	5300	63 - 125%	70	4-SMD	751-1346-1-ND	.63	.50	.43	751-1346-2-ND	1,000	218.31	SFH6156-2T
	5300	100 - 200%	70	4-SMD	751-1347-1-ND	.63	.50	.43	751-1347-2-ND	1,000	218.31	SFH6156-3T
13	5300	160 - 320%	70	4-SMD	751-1348-1-ND	.63	.50	.43	751-1348-2-ND	1,000	218.31	SFH6156-4T
	5300	100 - 200%	55	4-SMD	751-1352-1-ND	.83	.66	.56	751-1352-2-ND	1,000	289.67	SFH6186-3T
	5300	63 - 125%	70	4-DIP	751-1349-5-ND	.57	.45	.35	---	---	---	SFH615A-2
	5300	100 - 200%	70	4-DIP	751-1350-5-ND	.57	.45	.35	---	---	---	SFH615A-3
14	5300	160 - 320%	70	4-DIP	751-1351-5-ND	.57	.45	.35	---	---	---	SFH615A-4
	5300	63 - 125%	55	4-DIP	751-1353-5-ND	.80	.63	.49	---	---	---	SFH618A-2
	5300	100 - 200%	55	4-DIP	751-1354-5-ND	.80	.63	.49	---	---	---	SFH618A-3
	5300	160 - 320%	55	4-DIP	751-1355-5-ND	.80	.63	.49	---	---	---	SFH618A-4
15	5300	250 - 500%	55	4-DIP	751-1356-5-ND	.80	.63	.49	---	---	---	SFH618A-5
	5300	40 - 125%	70	4-DIP	751-1357-5-ND	.67	.53	.41	---	---	---	SFH620A-1
	5300	63 - 200%	70	4-DIP	751-1358-5-ND	.67	.53	.41	---	---	---	SFH620A-2
	5300	100 - 320%	70	4-DIP	751-1359-5-ND	.67	.53	.41	751-1360-2-ND	1,000	344.23	SFH620A-3
16	5300	100 - 320%	55	4-SMD	751-1360-1-ND	1.02	.81	.69	---	---	---	SFH6286-3T
	5300	100 - 320%	55	4-DIP	751-1361-5-ND	.83	.73	.56	---	---	---	SFH628A-3
	5300	160 - 320%	55	4-DIP	751-1362-5-ND	.83	.73	.56	---	---	---	SFH628A-4
	3750	50 - 300%	70	Mini-FLAT	751-1367-1-ND	.50	.40	.34	751-1367-2-ND	2,000	156.53/M	SFH690ABT
17	3750	50 - 150%	70	Mini-FLAT	751-1368-1-ND	.57	.45	.38	751-1368-2-ND	2,000	176.86/M	SFH690AT
	3750	100 - 300%	70	Mini-FLAT	751-1369-1-ND	.57	.45	.38	751-1369-2-ND	2,000	176.86/M	SFH690BT
18	5300	>20%	50	16-DIP	751-1370-5-ND	3.25	2.83	2.11	---	---	---	SFH6916
	5300	>100%	70	16-DIP	751-1329-5-ND	1.78	1.39	1.17	---	---	---	ILQ1
19	5300	>100%	70	16-DIP	751-1330-5-ND	1.85	1.45	1.22	---	---	---	ILQ2
	5300	>50%	70	16-DIP	751-1331-5-ND	2.40	2.09	1.56	---	---	---	ILQ620
20	5300	>100%	70	16-DIP	751-1332-5-ND	2.70	2.36	1.76	---	---	---	ILQ620GB
	5300	>100%	70	16-DIP	751-1333-5-ND	2.25	1.77	1.48	---	---	---	ILQ621
21	5300	>100%	70	16-DIP	751-1334-5-ND	2.00	1.75	1.30	---	---	---	ILQ621GB
	5000	50 - 600%	70	Mini-FLAT	751-1371-5-ND	1.19	.93	.78	751-1375-2-ND	2,000	573.83/M	TCCT4100
22A	3750	50 - 600%	70	Mini-FLAT	751-1375-1-ND	1.42	1.11	.93	---	---	---	TCMT4100
	5000	>20%	70	16-DIP	751-1372-5-ND	1.58	1.23	1.04	---	---	---	TCMT4600
22B	3750	80 - 300%	70	Mini-FLAT	751-1376-1-ND	2.02	1.54	1.33	751-1376-2-ND	2,000	624.80/M	TCMT4600
	3750	80 - 300%	70	Mini-FLAT	751-1374-1-ND	.54	.43	.37	751-1374-2-ND	3,000	168.73/M	TCMT1600
23	5000	80 - 160%	70	Mini-FLAT	751-1373-1-ND	.52	.41	.32	751-1373-2-ND	3,000	162.63/M	TCLT1107

§ Cut Tape

Photodarlington Output Optocouplers



Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel Pricing		Vishay Part No.
						1	10	100		2,000	3,000	
24	5300	>500%	25	6-DIP	751-1277-5-ND	.86	.75	.58	---	---	---	H11B1
25	4000	>500%	30	8-SOIC	751-1289-1-ND	.86	.69	.59	751-1289-2-ND	270.51/M	---	ILD223AT
26	4000	>500%	30	8-SOIC	751-1314-1-ND	1.53	1.21	1.04	751-1314-2-ND	480.25/M	---	ILD223T
27	5300	>100%	55	8-DIP	751-1319-5-ND	1.76	1.38	1.16	---	---	---	ILD55
28	5300	>750%	60	8-DIP	751-1327-5-ND	2.00	1.75	1.30	---	---	---	ILD755-1
	5300	>1000%	60	8-DIP	751-1328-5-ND	3.12	2.72	2.03	---	---	---	ILD755-2
29	5300	>500%	60	16-DIP	751-1335-5-ND	2.60	2.27	1.69	---	---	---	ILQ66-4

§ Cut Tape

Phototriac Output Optocouplers High dV/dt, Low Input Current

Fig.	Isolation Voltage	VORM (Minimum)	LED Trigger Current IFT (Maximum)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Vishay Part No.
						1	10	100		
30	5300	600	2mA, 5mA	6-DIP	751-1297-5-ND	2.30	2.01	1.50	---	---
	5300	800	2mA, 5mA	6-DIP	751-1298-5-ND	2.50	2.18	1.63	---	---
	5300	600	10mA	6-DIP	751-1382-5-ND	1.00	.87	.67	---	---
	5300	600	5mA	6-DIP	751-1383-5-ND	1.06	.85	.71	---	---
31	5300	600	1.3mA	6-DIP	751-1299-5-ND	2.50	2.18	1.63	---	---
	5300	800	1.3mA	6-DIP	751-1300-5-ND	3.17	2.76	2.05	---	---
32	5300	600	2mA	6-DIP	751-1301-5-ND	2.30	2.01	1.50	---	---
	5300	800	2mA	6-DIP	751-1302-5-ND	2.50	2.18	1.63	---	---
	5300	600	1.3mA	6-DIP	751-1303-5-ND	2.50	2.18	1.63	---	---
	5300	800	1.3mA	6-DIP	751-1304-5-ND	3.17	2.76	2.05	---	---

High Speed Optocouplers

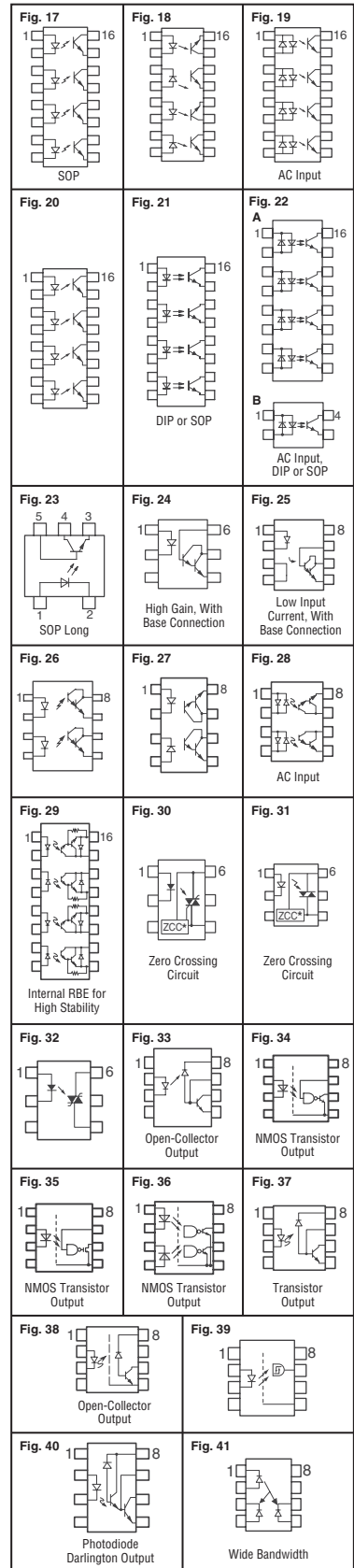


Fig.	Isolation Voltage	Common Mode Trans. Immunity CMH	Prop Delay tPLH	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel Pricing		Vishay Part No.
						1	10	100		2,000	3,000	
33	5300	1000 V/μs	1.5μs	8-DIP	751-1260-5-ND	1.00	.87	.67	---	---	---	6N135
	5300	1000 V/μs	0.8μs	8-DIP	751-1261-5-ND	1.03	.83	.69	---	---	---	6N136
34	5300	100 V/μs	75ns	8-DIP	751-1262-5-ND	1.19	.93	.78	---	---	---	6N137
	5300	5 kV/μs	100ns	8-DIP	751-1379-5-ND	1.31	1.02	.86	---	---	---	VO2601
	5300	10 kV/μs	100ns	8-DIP	751-1380-5-ND	1.42	1.12	.94	---	---	---	VO2611
	4000	5 kV/μs	100ns	8-SOIC	751-1377-1-ND	2.49	1.90	1.64	751-1377-2-ND	771.09/M	---	VO0601T
35	4000	15 kV/μs	100ns	8-SOIC	751-1378-1-ND	2.65	2.02	1.74	751-1378-2-ND	819.22/M	---	VO0611T
	5300	5 kV/μs	100ns	8-DIP	751-1381-5-ND	2.13	1.67	1.41	---	---	---	VO2631
37	4000	15 kV/μs	0.8μs	8-SOIC	751-1363-1-ND	1.62	1.24	1.07	751-1363-2-ND	501.16/M	---	SFH6316T
38	4000	15 kV/μs	1.0μs	8-SOIC	751-1364-1-ND	1.81	1.38	1.19	751-1364-2-ND	558.73/M	---	SFH6343T
	5300	15 kV/μs	0.8μs	8-DIP	751-1365-5-ND	1.31	1.02	.86	---	---	---	SFH6345
39	4000	1000 V/μs	300ns	8-SOIC	751-1366-1-ND	2.03	1.55	1.33	751-1366-2-ND	626.69/M	---	SFH6720T
40	5300	500 V/μs	10μs	8-DIP	751-1263-5-ND	1.11	.97	.75	---	---	---	6N138
	5300	500 V/μs	25μs	8-DIP	751-1264-5-ND	1.22	.98	.82	---	---	---	6N139

§ Cut Tape

Linear Optocouplers

Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity Δ (K2/K1) (If=1.0-10mA)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Vishay Part No.
						1	10	100		
41	5300	0.557 - 1.618	±0.25%	8-DIP	751-1292-5-ND	3.10	2.70	2.01	---	---
	5300	0.765 - 1.181	±0.25%	8-DIP	751-1293-5-ND	3.20	2.79	2.08	---	---
	5300	0.851 - 0.955	±0.25%	8-DIP	751-1294-5-ND	7.56	6.62	5.23	---	---
	5300	0.851 - 1.061	±0.25%	8-DIP	751-1295-5-ND	4.41	3.86	3.06	---	---
	5300	0.945 - 1.061	±0.25%	8-DIP	751-1296-5-ND	7.56	6.62	5.23	---	---



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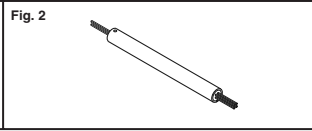
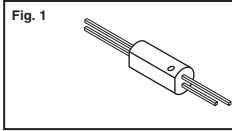
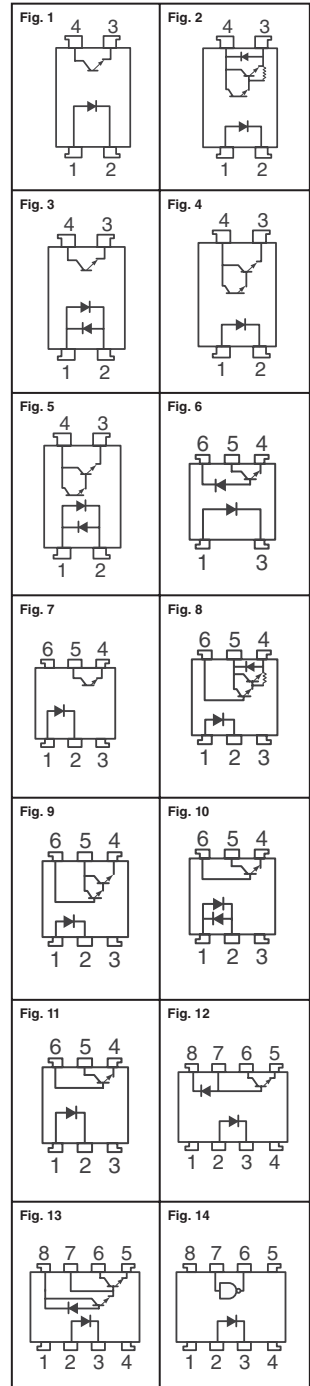


Fig.	Isolation Voltage	Forward DC Current (mA)	Reverse DC Voltage	DC Current Transfer Ratio	Digi-Key Part No.	Price Each			TT Electronics Part No.
						1	100	250	
1	±10k	40	2.0	25%	365-1031-ND	2.24	1.31	1.26	OPI1264A
	±10k	40	2.0	50%	365-1032-ND	2.24	1.31	1.26	OPI1264B
	±10k	40	2.0	100%	365-1033-ND	2.28	1.33	1.28	OPI1264C
2	±50k	50	3.0	25mA	365-1034-ND	53.31	31.02	29.83	OPI155

Photocouplers

Fig.	Isolation Voltage	Current Transfer Ratio		VCEO (Max.)	Typical ton/toff (µsec.)	Package Type	Digi-Key Part No.	Pricing			Optek Part No.
		Min.	Max.					1	100	250	
1	5000	50%	600%	60	4/3	SMD	365-1411-1-ND†	.24	15.25	32.67	OPIA400ATR
	5000	50%	600%	60	4/3	SMD	365-1411-2-ND‡	217.80/2,000			OPIA400ATR
	5000	50%	600%	60	4/3	SMD	365-1412-ND	.18	13.07	30.22	OPIA400ATU
	5000	50%	600%	60	4/3	DIP	365-1436-ND	.18	13.07	30.22	OPIA400DTU
	3750	50%	600%	60	5/4	SSOP	365-1419-1-ND†	.30	19.82	42.47	OPIA404BTR
	3750	50%	600%	60	5/4	SSOP	365-1419-2-ND‡	413.82/3,000			OPIA404BTR
	3750	50%	600%	60	5/4	SSOP	365-1420-ND	.24	17.42	40.29	OPIA404BTU
	2500	80%	600%	80	3/5	SSOP	365-1421-ND	.28	20.33	47.01	OPIA405CTU
	5000	50%	600%	350	2/3	SMD	365-1432-1-ND†	.97	62.51	133.95	OPIA413ATR
	5000	50%	600%	350	2/3	SMD	365-1432-2-ND‡	856.68/2,000			OPIA413ATR
	5000	50%	600%	350	2/3	SMD	365-1433-ND	.80	46.46	112.53	OPIA413ATU
	5000	50%	600%	350	2/3	DIP	365-1440-ND	.80	46.46	112.53	OPIA413DTU
2	3750	100%	600%	80	4/3	SSOP	365-1434-1-ND†	1.11	71.66	153.55	OPIA414BTR
	3750	100%	600%	80	4/3	SSOP	365-1434-2-ND‡	1481.04/3,000			OPIA414BTR
	3750	100%	600%	80	4/3	SSOP	365-1435-ND	.92	53.72	128.87	OPIA414BTU
	3750	1000%	—	300	100/20	SSOP	365-1413-1-ND†	.73	47.26	101.28	OPIA401BTR
	3750	1000%	—	300	100/20	SSOP	365-1413-2-ND‡	980.10/3,000			OPIA401BTR
	3750	1000%	—	300	100/20	SSOP	365-1414-ND	.60	34.85	85.31	OPIA401BTU
	2500	400%	—	300	40/10	SSOP	365-1425-ND	.88	51.55	123.42	OPIA409CTU
	5000	600%	9000%	300	60/50	SMD	365-1430-1-ND†	.57	36.59	78.41	OPIA412ATR
	5000	600%	9000%	300	60/50	SMD	365-1430-2-ND‡	508.20/2,000			OPIA412ATR
	5000	600%	9000%	300	60/50	SMD	365-1431-ND	.46	26.86	65.34	OPIA412ATU
	5000	600%	9000%	300	60/50	DIP	365-1439-ND	.46	26.86	65.34	OPIA412DTU
	3	3750	20%	400%	60	4/3	SSOP	365-1415-1-ND†	.52	33.54	71.87	OPIA402BTR
3750		20%	400%	60	4/3	SSOP	365-1415-2-ND‡	696.96/3,000			OPIA402BTR
3750		20%	400%	60	4/3	SSOP	365-1416-ND	.42	30.49	70.52	OPIA402BTU
2500		80%	600%	80	3/5	SSOP	365-1423-ND	.42	30.49	70.52	OPIA407CTU
5000		60%	600%	60	5/4	SMD	365-1426-1-ND†	.45	28.97	62.07	OPIA410ATR
5000		60%	600%	60	5/4	SMD	365-1426-2-ND‡	406.56/2,000			OPIA410ATR
5000		60%	600%	60	5/4	SMD	365-1427-ND	.34	24.68	57.09	OPIA410ATU
5000		60%	600%	60	5/4	DIP	365-1437-ND	.34	24.68	57.09	OPIA410DTU
3750		600%	7500%	35	60/53	SSOP	365-1417-1-ND†	.57	36.59	78.41	OPIA403BTR
3750		600%	7500%	35	60/53	SSOP	365-1417-2-ND‡	762.30/3,000			OPIA403BTR
3750		600%	7500%	35	60/53	SSOP	365-1418-ND	.46	26.86	65.34	OPIA403BTU
2500		200%	—	40	200/200	SSOP	365-1422-ND	.58	34.12	81.68	OPIA406CTU
4	5000	70%	—	35	80/72	SMD	365-1428-1-ND†	.57	36.59	78.41	OPIA411ATR
	5000	70%	—	35	80/72	SMD	365-1428-2-ND‡	508.20/2,000			OPIA411ATR
	5000	70%	—	35	80/72	SMD	365-1429-ND	.46	26.86	65.34	OPIA411ATU
	5000	70%	—	35	80/72	DIP	365-1438-ND	.46	26.86	65.34	OPIA411DTU
	2500	200%	—	40	200/200	SSOP	365-1424-ND	.76	44.29	107.09	OPIA408CTU
	3750	19%	50%	—	0.8/0.8	DIP	365-1460-1-ND†	1.15	74.71	160.08	OPIA500BTR
	3750	19%	50%	—	0.8/0.8	DIP	365-1460-2-ND‡	1524.60/3,000			OPIA500BTR
	3750	19%	50%	—	0.8/0.8	DIP	365-1461-ND	.96	55.90	134.31	OPIA500BTU
	5000	40%	400%	60	4/3	DIP	365-1451-1-ND†	.40	25.92	55.54	OPIA605ATR
	5000	40%	400%	60	4/3	DIP	365-1451-2-ND‡	181.50/1,000			OPIA605ATR
	5000	40%	400%	60	4/3	DIP	365-1452-ND	.32	23.23	53.72	OPIA605ATU
	5000	40%	400%	60	4/3	DIP	365-1459-ND	.32	23.23	53.72	OPIA605DTU
8	5000	600%	9000%	300	60/50	DIP	365-1443-1-ND†	.73	47.26	101.28	OPIA601ATR
	5000	600%	9000%	300	60/50	DIP	365-1443-2-ND‡	326.70/1,000			OPIA601ATR
	5000	600%	9000%	300	60/50	DIP	365-1444-ND	.60	34.85	85.31	OPIA601ATU
	5000	600%	9000%	300	60/50	DIP	365-1455-ND	.60	34.85	85.31	OPIA601DTU
	5000	500%	—	30	5/60	DIP	365-1445-1-ND†	.54	35.07	75.14	OPIA602ATR
	5000	500%	—	30	5/60	DIP	365-1445-2-ND‡	239.58/1,000			OPIA602ATR
	5000	500%	—	30	5/60	DIP	365-1446-ND	.48	28.31	67.16	OPIA602ATU
	5000	500%	—	30	5/60	DIP	365-1456-ND	.46	26.86	65.34	OPIA602DTU
	5000	50%	600%	60	2/3	DIP	365-1449-1-ND†	.62	39.64	84.94	OPIA604ATR
	5000	50%	600%	60	2/3	DIP	365-1449-2-ND‡	275.88/1,000			OPIA604ATR
	5000	50%	600%	60	2/3	DIP	365-1450-ND	.50	29.04	70.79	OPIA604ATU
	5000	50%	600%	60	2/3	DIP	365-1458-ND	.50	29.04	70.79	OPIA604DTU
11	5000	60%	600%	60	5/4	DIP	365-1441-1-ND†	.30	19.82	42.47	OPIA600ATR
	5000	60%	600%	60	5/4	DIP	365-1441-2-ND‡	137.94/1,000			OPIA600ATR
	5000	60%	600%	60	5/4	DIP	365-1442-ND	.24	17.42	40.29	OPIA600ATU
	5000	60%	600%	60	5/4	DIP	365-1454-ND	.24	17.42	40.29	OPIA600DTU
	5000	50%	600%	350	2/3	DIP	365-1447-1-ND†	1.09	70.13	150.28	OPIA603ATR
	5000	50%	600%	350	2/3	DIP	365-1447-2-ND‡	479.16/1,000			OPIA603ATR
	5000	50%	600%	350	2/3	DIP	365-1448-ND	.90	52.27	127.05	OPIA603ATU
	5000	50%	600%	350	2/3	DIP	365-1457-ND	.90	52.27	127.05	OPIA603DTU
	2500	15%	—	15	0.3/0.3	DIP	365-1464-ND	.74	43.56	103.46	OPIA802DTU
	5000	5%	—	15	0.4/0.3	DIP	365-1465-ND	.74	43.56	103.46	OPIA803DTU
	2500	300%	—	7	7/2	DIP	365-1462-ND	.74	43.56	103.46	OPIA800DTU
	2500	500%	—	18	10/5	DIP	365-1463-ND	.74	43.56	103.46	OPIA801DTU
14	5000	—	—	—	45/45	DIP	365-1466-ND	.80	46.46	112.53	OPIA804DTU



† Cut Tape ‡ Tape and Reel

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