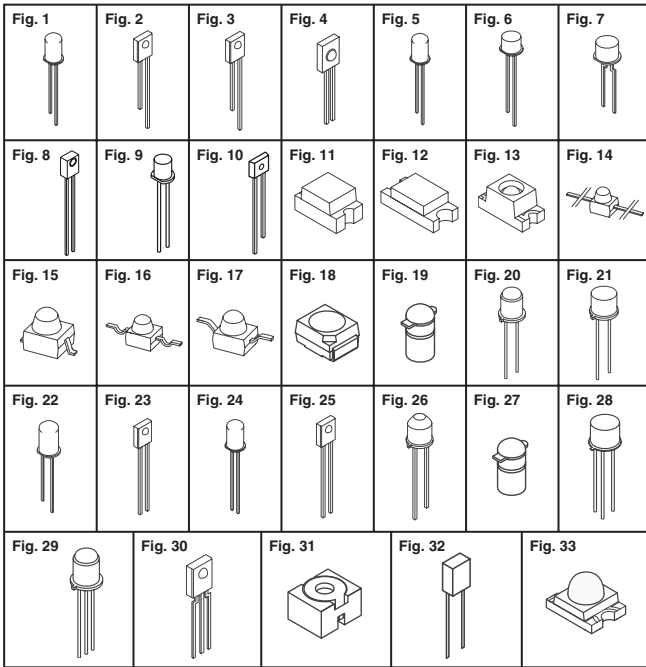


Infrared Emitters and Receivers



Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each	TT Electronics Part No.		
							1	100	250	
Plastic										
1	T-1 3/4	750mA	50mW/cm ²	890nm	50°	365-1060-ND	.72	.43	.41	OP294
	T-1 3/4	5.0A	44mW/cm ²	890nm	20°	365-1061-ND	.78	.46	.44	OP295A
	T-1 3/4	5.0A	77mW/cm ²	890nm	20°	365-1062-ND	.78	.46	.44	OP295B
	T-1 3/4	1.0A	0.70mW/cm ²	890nm	20°	365-1063-ND	.78	.46	.44	OP297A
	T-1 3/4	5.0A	210mW/cm ²	890nm	50°	365-1056-ND	.78	.46	.44	OP290A
	T-1 3/4	5.0A	16mW/cm ²	890nm	50°	365-1057-ND	.78	.46	.44	OP291A
	TO-46	2.0A	16mW/cm ²	890nm	60°	365-1058-ND	.72	.43	.41	OP293A
	TO-46	2.0A	13mW/cm ²	890nm	60°	365-1059-ND	.72	.43	.41	OP293B
	TO-46	2.0A	3.0mW/cm ²	890nm	25°	365-1064-ND	.72	.43	.41	OP298A
	TO-46	2.0A	2.4mW/cm ²	890nm	25°	365-1065-ND	.72	.43	.41	OP298B
T-1	3.0A	2.70mW/cm ²	890nm	18°	365-1054-ND	.92	.54	.52	OP265A	
2	Side-View	3.0A	0.60mW/cm ²	890nm	40°	365-1052-ND	.72	.43	.41	OP240A
	Side-View	3.0A	0.60mW/cm ²	890nm	40°	365-1053-ND	.78	.46	.44	OP245A
	Side-View	3.0A	0.40mW/cm ²	935nm	40°	365-1043-ND	.72	.43	.41	OP140A
3	Side-View	3.0A	0.30mW/cm ²	935nm	40°	365-1044-ND	.72	.43	.41	OP140B
	Side-View	3.0A	0.40mW/cm ²	935nm	40°	365-1045-ND	.76	.45	.43	OP145A
5	T-1	3.0A	1.95mW/cm ²	935nm	18°	365-1046-ND	.82	.48	.47	OP165A
	T-1	3.0A	0.85mW/cm ²	935nm	18°	365-1047-ND	.82	.48	.47	OP165C
	T-1	3.0A	0.95mW/cm ²	935nm	18°	365-1049-ND	.92	.54	.52	OP166A
6	T-1	3.0A	0.50mW/cm ²	935nm	90°	365-1048-ND	.90	.53	.51	OP165W
7	T-1	3.0A	1.00mW/cm ²	890nm	90°	365-1055-ND	.92	.54	.52	OP266W
8	Side-View	1.0A	—	850nm	36°	365-1005-ND	1.88	1.10	1.06	OP245PS
9	T-1	3.0A	.055mW/cm ²	850nm	120°	365-1006-ND	1.70	.99	.96	OP265WPS
10	End-Looking	100mA	—	850nm	50°	365-1007-ND	1.66	.97	.93	OP268FPS
SMT Plastic										
11	0805	50mA	0.2mW/cm ²	880nm	150°	365-1147-1-ND	.30	.20	.17	OP200
						365-1147-2-ND	392.04/3,000			OP200
12	1206	50mA	0.2mW/cm ²	880nm	150°	365-1148-1-ND	.30	.20	.17	OP250
						365-1148-2-ND	275.88/2,000			OP250
13	1206	50mA	0.3mW/cm ²	880nm	105°	365-1149-1-ND	.36	.23	.20	OP251
						365-1149-2-ND	319.44/2,000			OP251
14	Axial	50mA	1.5mW/cm ²	880nm	25°	365-1150-ND	.34	.21	.20	OP270
15	Gull Wing	50mA	1.5mW/cm ²	880nm	25°	365-1151-1-ND	.40	.26	.23	OP271
						365-1151-2-ND	181.50/1,000			OP271
17	Rev. Gull Wing	50mA	1.5mW/cm ²	880nm	25°	365-1153-1-ND	.43	.28	.24	OP273
						365-1153-2-ND	188.76/1,000			OP273
18	PLCC	50mA	0.5mW/cm ²	880nm	100°	365-1154-1-ND	.38	.25	.21	OP280
						365-1154-2-ND	348.48/2,000			OP280
18	PLCC-2	1.0A	0.50mW/cm ²	940nm	100°	365-1468-1-ND	.36	.23	.20	OP180
						365-1468-2-ND	319.44/2,000			OP180
	1.0A	0.85mW/cm ²	875nm	90°	365-1469-1-ND	1.28	.83	.71	OP280K	
					365-1469-2-ND	1132.56/2,000			OP280K	
18	PLCC-2	1.0A	0.85mW/cm ²	850nm	90°	365-1470-1-ND	.76	.49	.42	OP280KT
						365-1470-2-ND	667.92/2,000			OP280KT

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each	TT Electronics Part No.		
							1	100	250	
18	PLCC-2	1.0A	0.15mW/cm ²	850nm	50°	365-1471-1-ND	2.34	1.51	1.30	OP280PS
						365-1471-2-ND	2061.83/2,000			OP280PS
18	PLCC-2	1.0A	2.50mW/cm ²	850nm	18°	365-1472-1-ND	8.07	5.22	4.47	OP280V
						365-1472-2-ND	7100.26/2,000			OP280V
Hermetically Sealed										
19	PC Mount	1.0A	1.00mW/cm ²	935nm	24°	365-1040-ND	2.56	1.49	1.44	OP124
	PC Mount	1.0A	3.50mW/cm ²	890nm	24°	365-1050-ND	2.48	1.45	1.39	OP224
20	TO-46	10.0A	4.0mW/cm ²	935nm	18°	365-1041-ND	2.26	1.32	1.27	OP132
	TO-46	10.0A	5.0mW/cm ²	935nm	18°	365-1042-ND	2.26	1.32	1.27	OP133
21	TO-46	10.0A	5.0mW/cm ²	890nm	50°	365-1051-ND	2.40	1.40	1.35	OP233W

♠ Cut Tape ♠ Tape and Reel ♠

PIN Silicon Photodiodes

Fig.	Style/ Pkg.	V _R	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Price Each	TT Electronics Part No.		
						1	100	250	
22	T-1	60V	935nm	5ns	365-1084-ND	.66	.39	.38	OP906
	T-1 3/4	60V	890nm	5ns	365-1086-ND	.82	.48	.47	OP999
23	Side-View	60V	935nm	5ns	365-1085-ND	.68	.40	.39	OP950

Infrared NPN Phototransistors

Fig.	Style/ Pkg.	V _{CEO}	I _C	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each	TT Electronics Part No.			
						1	100	250		
SMT Phototransistors										
11	0805	30V	0.1mA	935nm	365-1477-1-ND	.38	.25	.21	OP500	
					365-1477-2-ND	500.94/3,000			OP500	
11	0805	30V	0.1mA	935nm	365-1478-1-ND	.28	.19	.16	OP501	
					365-1478-2-ND	370.26/3,000			OP501	
12	1206	30V	0.5mA	935nm	365-1155-1-ND	.28	.19	.16	OP520	
					365-1155-2-ND	261.36/2,000			OP520	
12	1206	30V	0.5mA	935nm	365-1156-1-ND	.26	.17	.15	OP521	
					365-1156-2-ND	232.32/2,000			OP521	
13	1206	30V	1.0mA	935nm	365-1157-1-ND	.26	.17	.15	OP522	
					365-1157-2-ND	232.32/2,000			OP522	
14	Axial	30V	2.5mA	935nm	365-1158-ND	.26	.16	.15	OP570	
15	Gull Wing	30V	2.5mA	935nm	365-1159-1-ND	.28	.19	.16	OP571	
					365-1159-2-ND	130.68/1,000			OP571	
16	Yoke	30V	5.0mA	935nm	365-1160-1-ND	.24	.16	.14	OP572	
17	Rev. Gull Wing	30V	2.5mA	935nm	365-1161-1-ND	.28	.19	.16	OP573	
					365-1161-2-ND	130.68/1,000			OP573	
18	PLCC	30V	2.5mA	935nm	365-1162-1-ND	.38	.25	.21	OP580	
					365-1162-2-ND	333.96/2,000			OP580	
33	1210	30V	1.0mA	935nm	365-1475-1-ND	.36	.23	.20	OP525	
					365-1475-2-ND	239.58/1,500			OP525	
Phototransistors										
1	T-1 3/4	30V	2.35mA	890nm	365-1077-ND	.66	.39	.38	OP599A	
24	T-1	30V	4.30mA	935nm	365-1066-ND	.60	.36	.35	OP505A	
	T-1	30V	2.15mA	935nm	365-1067-ND	.60	.36	.35	OP505B	
	T-1	30V	4.30mA	935nm	365-1068-ND	.76	.45	.43	OP506A	
	T-1	30V	2.15mA	935nm	365-1069-ND	.76	.45	.43	OP506B	
25	Side-View	30V	2.55mA	935nm	365-1070-ND	.68	.40	.39	OP550A	
	Side-View	30V	1.30mA	935nm	365-1071-ND	.68	.40	.39	OP550B	
25	Side-View	30V	0.25mA	935nm	365-1072-ND	.68	.40	.39	OP550C	
					365-1073-ND	.68	.40	.39	OP550D	
26	TO-18	30V	3.0mA	890nm	365-1074-ND	.68	.40	.39	OP598A	
	TO-18	30V	7.5mA	890nm	365-1075-ND	.68	.40	.39	OP598B	
26	TO-18	30V	5.0mA	890nm	365-1076-ND	.68	.40	.39	OP598C	
					365-1077-ND	.68	.40	.39	OP598D	
27	PC Mount	25V	7.0mA	890nm	365-1078-ND	2.32	1.36	1.30	OP644SL	
28	TO-18	30V	0.5mA	890nm	365-1079-ND	2.77	1.62	1.56	OP801WSL	
	TO-18	30V	2.5mA	890nm	365-1080-ND	2.77	1.62	1.56	OP802WSL	
29	TO-18	30V	7.0mA	890nm	365-1081-ND	2.13	1.25	1.20	OP804SL	
	TO-18	30V	15.0mA	890nm	365-1082-ND	2.13	1.25	1.20	OP805SL	
Photodarlington										
11	0805	35V	10.0mA	935nm	365-1480-1-ND	.36	.23	.20	OP501DA	
					365-1480-2-ND	457.38/3,000			OP501DA	
11	0805	35V	10.0mA	935nm	365-1479-1-ND	.36	.23	.20	OP500DA	
					365-1479-2-ND	457.38/3,000			OP500DA	
12	1206	35V	10mA	935nm	365-1473-1-ND	.38	.25	.21	OP521DA	
					365-1473-2-ND	333.96/2,000			OP521DA	
12	1206	35V	10mA	935nm	365-1474-1-ND	.38	.25	.21	OP520DA	
					365-1474-2-ND	333.96/2,000			OP520DA	
18	PLCC	35V	10.0mA	935nm	365-1481-1-ND	.36	.23	.20	OP580DA	
					365-1481-2-ND	319.44/2,000			OP580DA	
23	Side-View	15V	1.1mA	935nm	365-1073-ND	1.22				