

Silicon Detectors and Emitters

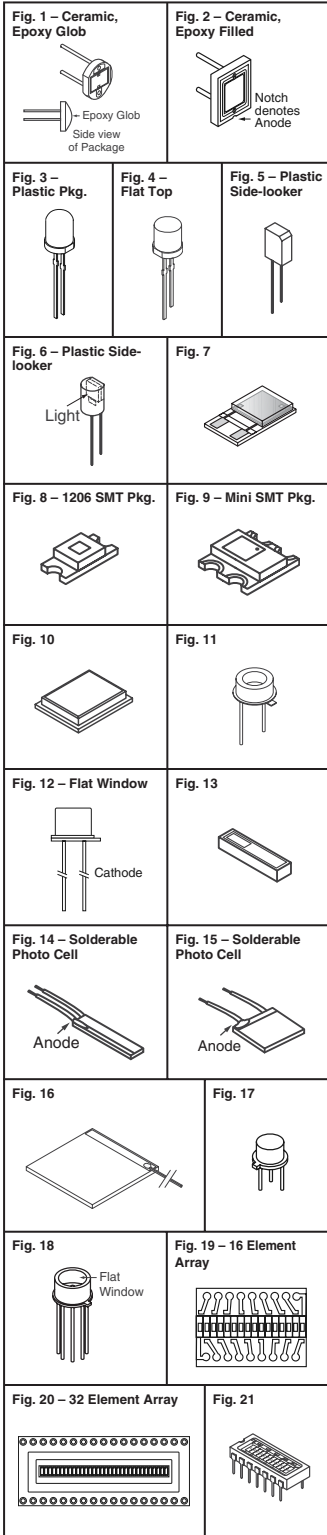


Photo Detectors

Fig.	Active Area (mm)	Short Cir. Curr. (Isc) (uA) Typ.	Dark Curr. (Id) (nA) Max	Sensitivity Wavelength (nm) Min. Peak Max.	Junction Cap. (pF) Typ.	Response Time (ns) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	1	5	25	100
Blue Enhanced Photo Conductive Detectors, Curve Line B												
1	17.74	235	50	350 950 1,100	100	20	120	PDB-C107-ND	11.27	—	7.99	7.36
2	100	1,300	30	350 950 1,100	300	25	120	PDB-C110-ND	42.80	—	33.89	32.10
1	7.95	110	30	350 950 1,100	60	16	120	PDB-C113-ND	11.02	—	8.02	7.27
3	1.55	60	30	400 950 1,100	6	10	30	PDB-C134-ND	1.55	—	.90	.80
4	4.10	67	30	400 950 1,100	18	50	61	PDB-C139-ND	2.40	—	1.48	1.31
1	29.02	400	25	350 950 1,100	200	18	120	PDB-C140-ND	20.27	—	14.46	13.90
3	4.10	150	30	400 950 1,100	18	50	59	PDB-C142-ND	2.40	—	1.48	1.31
5	8.02	90	15	400 950 1,100	10	15	120	PDB-C156-ND	2.19	—	1.34	1.17
6	9.00	145	30	400 950 1,100	10	50	120	PDB-C158-ND	2.19	—	1.34	1.17
7	7.95	110	10	350 950 1,100	60	100	—	PDB-C165-ND	10.82	—	7.00	6.56
8	0.74	10	10	400 950 1,100	15	50	140	PDB-C152SMCT-ND	1.72	—	1.02	.86
8	0.74	10	10	400 950 1,100	15	50	140	PDB-C152SMTR-ND	—	2036.43/3,000	—	—
9	2.10	25	10	400 950 1,100	4	10	—	PDB-C154SMCT-ND	1.82	—	1.08	.91
9	2.10	25	10	400 950 1,100	4	10	—	PDB-C154SMTR-ND	—	1463.62/2,000	—	—
10	7.67	90	30	400 900 1,100	15	20	—	PDB-C171SMCT-ND	2.27	—	1.35	1.13
10	7.67	90	30	400 900 1,100	15	20	—	PDB-C171SMTR-ND	—	919.33/1,000	—	—
Photo Conductive Detectors with Daylight Filter, Curve Line D												
3	1.55	60	30	700 950 1,100	6	10	30	PDB-C134F-ND	1.55	—	.90	.80
4	4.10	67	30	700 950 1,100	18	50	61	PDB-C139F-ND	2.40	—	1.48	1.31
3	4.10	150	30	700 950 1,100	18	50	40	PDB-C142F-ND	2.40	—	1.48	1.31
5	8.02	90	15	700 950 1,100	10	15	120	PDB-C156F-ND	2.19	—	1.34	1.17
6	9.00	145	30	700 950 1,100	10	50	120	PDB-C158F-ND	2.19	—	1.34	1.17
9	2.10	25	10	700 950 1,100	4	10	—	PDB-C154SMFCT-ND	1.82	—	1.08	.91
Blue Enhanced Photovoltaic Detectors, Curve Line B												
11	1.17 x 2.64	40	300	350 — 1,100	340	190	65	PDB-V104-ND	37.07	—	29.06	27.06
1	17.74	200	0.80	350 950 1,100	2,000	1,000	120	PDB-V107-ND	6.88	—	4.74	4.31
2	100	1,200	0.333	350 950 1,100	10,000	2,000	120	PDB-V110-ND	20.84	—	15.63	14.59
1	7.95	80	0.50	350 950 1,100	800	750	120	PDB-V113-ND	11.14	—	7.21	6.76
11	3.15 x 5.69	230	550	350 — 1,100	2,000	190	63	PDB-V114-ND	39.79	—	31.51	29.85
U.V. Enhanced Photovoltaic Detectors, Curve Line A — RoHS Compliant												
12	17.63	230	0.05	190 — 1,100	2,000	900	63	PDU-V114-ND	24.78	—	19.07	17.80
Red Enhanced Solderable Photo Cells, Curve Line B												
13	1.88 x 0.56	17	2.00	350 — 1,100	10	10	—	PDB-C601-1-ND	2.03	—	1.25	1.08
13	1.88 x 0.56	13	7.00	350 — 1,100	250	300	—	PDB-V601-1-ND	2.03	—	1.25	1.08
14	14.50	185	35	350 940 1,100	125	25	—	PDB-C607-2-ND	11.33	—	7.33	6.87
15	42.40	545	75	350 940 1,100	240	30	—	PDB-C609-2-ND	11.91	—	7.71	7.23
16	6.07 x 6.98	545	75	350 — 1,100	240	30	—	PDB-C609-3-ND	9.64	—	6.99	6.22
16	6.07 x 6.98	545	100	350 — 1,100	5,500	1,500	—	PDB-V609-3-ND	9.64	—	6.99	6.22
14	68.70	900	150	350 940 1,100	300	45	—	PDB-C612-2-ND	11.35	—	8.26	7.49
14	3.91 x 17.55	800	80	350 — 1,100	9,000	2,800	—	PDB-V612-2-ND	12.43	—	9.18	8.44
15	86.40	1,000	180	350 940 1,100	350	50	—	PDB-C613-2-ND	11.82	—	8.60	7.79
14	232.70	2,800	700	350 940 1,100	775	150	—	PDB-C615-2-ND	20.94	—	15.71	14.66
14	9.25 x 25.17	2,800	700	350 — 1,100	25,800	7,000	—	PDB-V615-2-ND	37.07	—	29.06	27.06
14	62.91	650	135	350 940 1,100	285	40	—	PDB-V617-2-ND	10.97	—	7.98	7.24
Blue Enhanced Bi-Cells, Quadrants and Multi-Element Detector Arrays, Curve Line B												
17	3.23±	75	2.00	350 950 1,100	15	8	72	PDB-C201-ND	17.93	—	13.45	12.56
18	1.61±	50	1.00	350 950 1,100	8	7	71	PDB-C203-ND	21.27	—	15.96	14.90
19	2.31±	28	5.00	350 950 1,100	40	800	—	PDB-C216-ND	38.81	—	30.42	28.32
20	1.47±	11	0.15	350 950 1,100	30	200	—	PDB-C232-ND	—	—	—	108.90
21	2.03 x 0.97±	—	2.70	350 — 1,100	28	190	—	SD219-51-03-301-ND	243.41	—	204.15	—
Photo Conductive Silicon Photodiodes												
23	2.90	38	1.00	400 950 1,100	60	100	—	PDB-C168-ND	5.26	—	3.58	3.23
23	8.10	102	30	400 950 1,100	25	50	—	PDB-C169-ND	5.26	—	3.58	3.23
23	1.70	27	0.60	400 950 1,100	30	100	—	PDB-C170-ND	5.26	—	3.58	3.23
10	7.67	85	30	840 900 1,050	15	20	—	PDI-C172SMFCT-ND	2.27	—	1.35	1.13
10	7.67	85	30	840 900 1,050	15	20	—	PDI-C172SMFTR-ND	—	919.33/1,000	—	—
10	7.67	90	30	800 900 1,050	15	20	—	PDV-C173SMCT-ND	2.27	—	1.35	1.13
InGaAs Photodetectors — RoHS Compliant												
17	.200	—	1.00	800 — 1,700	0.75	0.18 (max.)	—	SD004-11-41-211-ND	14.59	—	11.36	10.67
17	.200	—	5.00	800 — 1,700	6	1.15 (max.)	88	SD012-11-41-211-ND	36.02	—	29.79	27.93
17	1.50	—	50	800 — 1,700	250	10.0 (max.)	113	SD060-11-41-211-ND	125.53	—	108.10	105.20
Gallium Nitride (GaN) Detectors — RoHS Compliant												
11	0.076	1.0	100,000	200 — 365	24	10	61	PDU-G101A-ND	11.74	—	8.54	7.74
11	0.076	1.0	100,000	200 — 320	24	10	61	PDU-G102B-ND	13.65	—	10.08	9.26
24	—	.001	100,000	200 — 365	24	10	—	PDU-G105A-SM-ND	9.39	—	6.81	6.06
24	—	.001	100,000	200 — 320	24	10	—	PDU-G106B-SM-ND	9.66	—	7.03	6.37
Silicon Avalanche Photodiode — RoHS Compliant												
17	0.30	—	10	400 — 1,100	—	1	—	SD012-70-62-541-ND	92.14	—	78.34	73.81
17	0.90	—	30	400 — 1,100	—	2	—	SD036-70-62-531-ND	99.67	—	84.74	79.83
25	5.00	—	18	350 — 1,050	25	10	—	SD197-70-72-591-ND	685.47	—	—	—
25	5.00	—	18	350 — 1,050	25	10	—	SD197-70-74-591-ND	685.47	—	—	—
25	10	—	35	350 — 1,050	50	12	—	SD394-70-72-591-ND	940.37	—	—	—
25	10	—	35	350 — 1,050	50	12	—	SD394-70-74-591-ND	940.37	—	—	—
26	16	—	600	350 — 1,050	130	15	—	SD630-70-72-500-ND	1177.42	—	—	—
26	16	—	600	350 — 1,050	130	15	—	SD630-70-73-500-ND	1177.42	—	—	—
26	16	—	600	350 — 1,050	130	15	—	SD630-70-74-500-ND	1177.42	—	—	—
26	16	—	600	350 — 1,050	130	15	—	SD630-70-75-500-ND	1177.42	—	—	—
Red Enhanced Silicon Photodiode												
17	0.83 x 1.02	—	8.00	350 — 1,100	5.6	190	91	SD041-11-33-211-ND	18.95	—	14.22	13.27
18	0.50±	—	0.40	350 — 1,100	15	190	67	SD055-23-21-211-ND	45.28	—	35.85	33.97
11	1.30	—	2.00	350 — 1,100	28	190	51	SD057-11-21-011-ND	20.55	—	15.41	14.39
11	1.30	—	0.50	350 — 1,100	28	190	51	SD057-14-21-011-ND	20.55	—	15.41	14.39
17	0.58 x 1.19	—	1.00	350 — 1,100	15	190	42	SD066-24-21-011-ND	25.27	—	19.44	18.15
17	1.09 x 2.67	—	30	350 — 1,100	17.5	190	59	SD076-11-31-211-ND	24.63	—	18.95	17.69
22	1.09 x 2.67	—	0.90	350 — 1,100	50	190	55	SD076-14-21-011-ND	20.11	—	15.09	14.08
18	1.50±	—	3.50	350 — 1,100	45	190	86	SD085-23-21-021-ND	37.81	—	29.64	27.59
17	2.54	—	6.40	350 — 1,100	87	190	90	SD100-11-21-221-ND	22.30	—	17.16	16.01
17	2.54	—	50	350 — 1,100	28	190	90	SD100-11-31-221-ND	26.05	—	20.04	18.71
17	2.54	—	1.60	350 — 1,100	87	190	82	SD100-14-21-021-ND	21.63	—	16.23	15.15
18	2.54	—	10	250 — 1,100	87	—	—	SD100-41-21-231-ND	80.38	—	65.05	60.41
27	2.54 x 2.18	—	—	350 — 1,100	—	—	—	SD112-42-11-221-ND	59.08	—	47.27	44.74

Silicon Detectors and Emitters

Fig. 22 – Lens Window

Fig. 23

Fig. 24

Fig. 25

Fig. 26

Fig. 27

Fig. 28

Fig. 29

Fig. 30

Fig. 31

Fig. 32

Fig. 33

Fig. 34

Fig. 35

Fig. 36

Fig. 37

Fig. 38

Curve Graph

RESPONSIVITY (A/W)

WAVELENGTH (nm)

A(-) U.V. Enhanced Silicon Detectors
 B(-) Blue Enhanced Silicon Detectors
 C(.) Silicon Carbide U.V. Detectors
 D(·) Daylight Filter Detectors
 E(-) GaAlAs Photodiodes
 F(*) CdS Photoconductive Cells (relative responsivity)

Photo Detectors (Cont.)

Fig.	Active Area (mm)	Short Cir. Curr. (Isc) (uA) Typ.	Dark Curr. (Id) (nA) Max	Sensitivity Wavelength (nm)			Junction Cap. (pF) Typ.	Response Time (ns) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			
				Min.	Peak	Max.					1	5	25	100
18	9.65±	—	27	350	—	1,100	375	190	120	SD380-23-21-051-ND◆	104.78	—	84.76	78.59
18	9.65±	—	27	350	—	1,100	375	190	120	SD380-23-21-251-ND◆	118.99	—	98.55	91.25
17	—	—	31	350	—	1,100	390	190	—	SD385-24-21-041-ND◆§	33.93	—	25.90	24.56
18	11.30	—	150	250	—	1,100	1,700	—	—	SD444-41-21-261-ND▲	299.91	—	254.83	—
2	1.00	—	120	350	—	1,100	1,700	190	120	SD445-11-21-305-ND◆	38.88	—	30.48	28.38
2	1.00	—	30	350	—	1,100	1,700	190	120	SD445-14-21-305-ND◆	38.88	—	30.48	28.38
Blue Enhanced Silicon Photodiodes — RoHS Compliant														
29	5.31 x 8.10	500	15	350	—	1,100	120	190	79	PDB-C109-ND	37.81	—	29.64	27.59
30	0.33 x 0.33	1.5	2.00	350	—	1,100	5	190	—	PDB-C122-ND	—	24.32	21.64	20.52
7	1.17 x 2.64	25	10	350	—	1,100	7	190	—	PDB-C164-ND	18.44	—	13.84	12.91
17	2.54	—	6.40	350	—	1,100	87	190	82	SD100-12-22-021-ND	19.82	—	14.87	13.88
18	2.54	—	10	250	—	1,100	87	—	—	SD100-42-22-231-ND▲	80.38	—	65.05	60.41
27	2.54 x 2.18	—	—	—	—	—	—	—	—	SD112-45-11-221-ND▲	56.98	—	45.59	43.15
18	5.59 x 7.62	—	52	350	—	1,100	725	190	90	SD290-12-22-241-ND	38.28	—	30.01	27.94
31	11.28	—	52	350	—	1,100	725	190	95	SD444-12-12-171-ND	119.35	—	98.85	91.53
18	11.30	—	150	250	—	1,100	—	—	—	SD444-42-22-261-ND▲	299.91	—	254.83	—
UV Enhanced Silicon Photodiodes — RoHS Compliant														
17	2.54	—	6.50	250	—	1,100	87	190	90	SD100-13-23-222-ND	32.28	—	24.64	23.36
18	2.54	—	10	250	—	1,100	87	—	—	SD100-43-23-232-ND▲	80.38	—	65.05	60.41
17	5.08	—	30	250	—	1,100	345	190	95	SD200-13-23-242-ND	54.38	—	43.51	41.18
18	11.30	—	150	250	—	1,100	170	—	—	SD444-43-23-262-ND▲	299.91	—	254.83	—
Silicon Avalanche Photodiodes Module — RoHS Compliant														
32	5.00	—	—	350	—	1,050	—	—	—	SD197-70-72-661-ND	1715.14	—	—	—
32	5.00	—	—	350	—	1,050	—	—	—	SD197-70-74-661-ND	1715.14	—	—	—
32	10.00	—	—	350	—	1,050	—	—	—	SD394-70-72-661-ND	1900.56	—	1790.43	—
32	10.00	—	—	350	—	1,050	—	—	—	SD394-70-74-661-ND	1900.56	—	1790.43	—
Plastic Photodiode — RoHS Compliant														
33	0.61	10	10	700	—	1,100	25	6	48	PDB-C144-ND	2.50	—	1.55	1.37
33	0.43	10	30	400	—	1,100	5	6	48	PDB-C145-ND	2.50	—	1.55	1.37
34	0.43	2.0	30	400	—	1,100	1	6	120	PDB-C160SM-ND	4.68	—	2.71	2.42
6	2.84	120	30	400	—	1,100	30	50	120	PDB-C157-ND	2.29	—	1.41	1.25
35	2.65	90	30	400	—	1,100	15	20	120	PDB-C160SM-ND	2.14	—	1.32	1.14

‡ Per Element § Bi-cell ◆ Quad ▲ Detector/Amplifier ◆ RoHS Compliant

Oximeter Components

Fig.	661nm					880/905/940nm					Digi-Key Part No.	Price Each			
	Forward Voltage (V) Typ.	Reverse Breakdown (V)	Peak Wavelength (nm) Typ.	Spectral Bandwidth (nm) Typ.	Rise/Fall Time (µs) Typ.	Forward Voltage (V) Typ.	Reverse Breakdown (V)	Peak Wavelength (nm) Typ.	Spectral Bandwidth (nm) Typ.	Rise/Fall Time (µs) Typ.		1	25	100	250
36	1.8	5	661	25	0.1/0.04	1.2	5	905	50	1.4/0.7	PDI-E832-ND	10.59	6.86	6.43	6.15
36	1.8	5	661	25	0.8/0.8	1.3	5	940	50	0.8/0.8	PDI-E833-ND◆	36.94	28.95	26.96	25.96
37	1.8	5	661	21	0.1/0.04	1.3	5	880	50	0.8/0.8	PDI-E837-ND◆	36.94	28.95	26.96	25.96
36	1.8	5	661	21	0.1/0.04	1.2	5	880	50	0.8/0.8	PDI-E838-ND◆	36.94	28.95	26.96	25.96

◆ RoHS Compliant

High Power Infrared Emitters

Fig.	Forward Voltage (V) Typ.	Forward Current (mA) Con.	Output Power (mW) Typ.	Beam Angle (2x Theta)	Peak Wavelength (nm) Typ.	Digi-Key Part No.	Price Each			
							1	25	100	250
12	1.5	100	5.6	60	880	PDI-E801-ND	10.80	7.86	7.12	6.88
22	1.5	100	5	10	880	PDI-E802-ND◆	10.80	7.86	7.12	6.88
22	1.5	100	9	6	880	PDI-E803-ND	10.80	7.86	7.12	6.88
22	1.5	100	20	80	880	PDI-E804-ND◆	12.39	8.02	7.51	7.19
22	1.5	100	10	5	880	PDI-E805-ND	10.80	7.86	7.12	6.88
3	1.5	100	30 (max.)	35	880	PDI-E808-A-ND	10.22	7.44	6.74	6.51
3	1.6	100	90	—	880	PDI-E809-ND◆	10.22	7.44	6.74	6.51
22	1.5	180	15	—	880	PDI-E813-ND◆	39.96	31.32	29.16	28.08
22	1.7	100	2.7	—	850	PDI-E825-ND◆	25.91	19.93	18.61	17.61
34	1.2	100	0.7	—	940	PDI-E940SM-ND◆	10.22	7.44	6.74	6.51

◆ RoHS Compliant

Photoconductive Cells

Fig.	Dim. D (mm)	Cell Resistance‡				Peak Wavelength (nm) Typ.	Rise/Fall Time (ms) Typ.	Digi-Key Part No.	Price Each				
		10 Lux @ 2856K		Dark					1	25	100	250	
		Min. (KΩ)	Max. (KΩ)	Min. (MΩ)	SEC								
38, Curve Line F	11.00	8	16	0.3	10	520	55/25	PDV-P5001-ND	1.92	1.18	1.05	.96	
		12	30	0.5	10				PDV-P5002-ND	1.92	1.18	1.05	.96
		12	58	1	10				PDV-P5003-ND	1.92	1.18	1.05	.96
38, Curve Line F	7.20	4	20	0.5	10	520	55/20	PDV-P7002-ND◆	2.03	1.25	1.08	1.02	
		3	11	0.2	10				PDV-P8001-ND	1.55	.90	.80	.74
		40	120	1	10				PDV-P8005-ND	1.55	.90	.80	.74
		80	240	5	10				PDV-P8006-ND	1.55	.90	.80	.74
		4	11	0.15	10				PDV-P8101-ND	1.55	.90	.80	.74
		9	20	0.3	10				PDV-P8102-ND	1.55	.90	.80	.74
		16	33	0.5	10				PDV-P8103-ND◆	1.58	.94	.83	.77
		27	60	2	10				PDV-P8104-ND◆	1.58	.94	.83	.77
		50	94	2.5	10				PDV-P8105-ND◆	1.32	.81	.69	.67
		80	240	20	10				PDV-P8107-ND	1.55	.90	.80	.74
38, Curve Line F	4.20	4	11	0.3	10	520	60/25	PDV-P9001-ND	1.30	.75	.65	.61	
		9	20	0.5	10				PDV-P9002-ND	1.30	.75	.65	.61
		11	20	0.5	10				PDV-P9002-1-ND	1.30	.75	.65	.61
		16	33	1	10				PDV-P9003-ND	1.30	.75	.65	.61
		23	33	1	10				PDV-P9003-1-ND	1.30	.75	.65	.61
		27	60	2	10				PDV-P9004-ND	1.30	.75	.65	.61
		50	94	2.5	10				PDV-P9005-ND	1.30	.75	.65	.61
		48	140	20	10				PDV-P9005-1-ND	1.30	.75	.65	.61
		80	200	5	10				PDV-P9006-ND	1.30	.75	.65	.61
		10	100	1	10				PDV-P9007-ND	1.30	.75	.65	.61
38, Curve Line F	4.20	10	200	20	10	520	60/25	PDV-P9008-ND	1.30	.75	.65	.61	
		20	45	1	10				PDV-P9103-ND	1.30	.75	.65	.61
		10	50	5	10				PDV-P9200-ND	1.30	.75	.65	.61
		5	20	20	10				PDV-P9203-ND	1.30	.75	.65	.61
		5	20	20	10				PDV-P9203-ND	1.30	.75	.65	.61

◆ RoHS Compliant ‡ Photocells are light adapted at 100 to 500 Lux.

TDK Visible Radiant Optical Sensors — Photodiodes



These photodiodes use an amorphous silicon semiconductor on the glass substrate. They are the most suitable for brightness adjustment and control of lighting systems.

Features: • Highly receptive to visible light but not receptive to infrared light (close to human eye visibility) • Accurate illumination measurement can be taken without the use of an infrared filter

Specifications: • Operating Temperature: -20°C - 85°C • Spectral Sensitivity Area: 350 - 750nm • Peak of sensitivity: 500nm ±20

Applications: • Brightness control for LCD, EL, and CRT • Brightness control for keypads (e.g., mobile phones) • Positioning scan line for rear projection TV • Exposure adjust for compact camera • Sub exposure adjust for digital camera

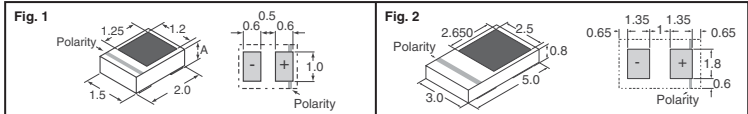


Fig.	Max. Output Current (µA) (VR=5V)	Max. Reverse Bias Voltage (V)	Max. Dark Current (pA) VR=.05V	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10		Qty.	Pricing	
1	0.16	10	10	0.6	445-2589-1-ND	2.63	1.82	—	4,000	1200.81/M	BCS2015G1
	0.13	6	10	.25	445-2591-1-ND	2.63	1.82				
2	0.55	6	100	—	445-2590-1-ND	4.53	3.45	445-2590-2-ND	3,000	2447.35/M	BCS5030G1

OSRAM Optoelectronics

Photodiodes



Fig.	Fwd. Volt. (V)	Photo Cur. (µA)	Dark Cur. (nA)	Peak Wavelength (nm)	Rise/Fall Time (ns)	View Angle (°)	Digi-Key Part No.	Bulk Price Each			Osram Part No.
								1	10	100	
1	1.3	50	2	880	20	120	475-1072-ND	.55	.45	.40	BPW34FA
	1.3	50	1	900	5	40	475-1075-ND	.57	.46	.42	SFH203FA
2	1.3	135	1	850	5	20	475-1077-ND	.52	.42	.38	SFH213
	1.3	80	2	850	20	120	475-1076-ND	.67	.54	.49	SFH206K
3	1.3	60	2	950	20	120	475-1429-ND	.52	.42	.38	SFH 205 F
	1.3	60	2	900	20	120	475-1430-ND	.52	.42	.38	SFH 205 FA
4	1.3	28	.05	860	10	34	475-1078-ND	.42	.34	.31	SFH229
	1.3	20	.05	900	10	34	475-1079-ND	.42	.34	.31	SFH229FA
5	—	100	0.1	850	5	30	475-1435-ND	.44	.35	.32	SFH 2505-Z
	—	—	0.1	900	5	30	475-1436-ND	.68	.55	.50	SFH 2505 FA-Z
6	—	—	0.1	900	5	30	475-1434-ND	.44	.35	.32	SFH 2500 FA-Z
7	1.3	—	1	900	5	150	475-1428-ND	.65	.53	.48	SFH 203 PFA
8	1.3	50	2	880	20	120	475-1346-ND	.68	.55	.50	BPW 34 FASR-Z
9	1.3	55	2	850	20	120	475-1345-1-ND†	.91	.77	.61	BP 104 S-Z
	1.3	55	2	850	20	120	475-1345-2-ND‡	686.07/1,500			BP 104 S-Z
10	1.2	—	0.1	570	200µs	120	475-2579-1-ND†	1.34	1.12	.90	SFH 2430-Z
	1.2	—	0.1	570	200µs	120	475-2579-2-ND‡	1001.34/1,500			SFH 2430-Z
11	1.3	24	10	900	500	120	475-1344-ND	.61	.49	.45	BP 104 FAS-Z
	1.3	24	10	900	500	120	475-1349-ND	9.29	7.44	6.74	BPX 48
11	1.3	—	2	850	20	110	475-1350-ND	6.24	5.00	4.53	BPX 61
12	1.0	—	10	900	500	110	475-1431-ND	7.70	6.16	5.58	SFH 221
13	1.3	34	2	900	20	120	475-1432-ND	.45	.36	.33	SFH 225 FA
	1.3	50	2	900	20	130	475-1433-ND	.46	.38	.34	SFH 235 FA

† Cut Tape ‡ Tape and Reel

Phototransistors

Fig.	Collector Emitter (V) Max.	Photo Cur. Emit. to Col. (mA) Typ.	Dark Cur. (nA)	Peak Wavelength (nm)	Rise/Fall Time (µs) Typ.	View Angle (°)	Digi-Key Part No.	Bulk Price Each			Osram Part No.
								1	10	100	
2	70	7.5	3	870	11	20	475-1080-ND	.26	.21	.19	SFH313FA
	35	—	1	880	10	50	475-1437-ND	.29	.24	.22	SFH 300-3/4
4	35	—	1	880	10	50	475-1438-ND	.30	.25	.23	SFH 300 FA-3/4
	35	—	1	900	7/8	24	475-1440-ND	.30	.25	.23	SFH 309 FA-4/5
6	35	—	3	830	—	26	475-1453-ND	.35	.28	.26	SFH 3500-Z
	50	—	20	880	9/12	80	475-1347-ND	.94	.76	.69	BPX 38-2/3
14	50	—	20	880	12/15	30	475-1348-ND	.90	.72	.66	BPX 43-3/4
	35	—	1	830	7/9	16	475-1351-ND	1.03	.83	.75	BPY 62-3/4
15	70	1.9	3	850	11	80	475-1074-ND	.94	.76	.69	BPX43-4/5
	35	—	1	850	10	70	475-1081-ND	.26	.21	.19	SFH314
16	35	—	1	920	7/9	28	475-1445-ND	.25	.20	.18	SFH 3100 F
	35	—	3	850	10	70	475-1419-ND	.30	.25	.23	LPT 80A
18	35	—	1	860	6	150	475-1441-ND	.26	.21	.19	SFH 309 P
	35	—	1	900	6	150	475-1442-ND	.26	.21	.19	SFH 309 PFA
19	70	—	5	780	7/8	50	475-1443-ND	.30	.25	.23	SFH 310-2/3
	70	—	5	880	7/8	50	475-1444-ND	.25	.20	.18	SFH 310 FA-2/3
20	35	—	1	980	7/8	120	475-1446-ND	.25	.20	.18	SFH 320-3/4-Z
	35	—	1	860	—	120	475-2572-1-ND†	.72	.60	.48	SFH 7225-Z
21	35	—	1	860	—	120	475-2572-2-ND‡	718.74/2,000			SFH 7225-Z
	35	—	1	860	7	120	475-2570-1-ND†	.72	.60	.48	SFH 7221-Z
22	35	—	1	860	7	120	475-2570-2-ND‡	718.74/2,000			SFH 7221-Z
	35	—	1	565	500	120	475-2571-1-ND†	.72	.60	.48	SFH 7222-Z
23	35	—	1	565	500	120	475-2571-2-ND‡	718.74/2,000			SFH 7222-Z
	15	—	2	920	7	120	475-1447-ND	.48	.39	.35	SFH 3204-Z
24	35	—	1	990	7	50	475-1448-ND	.35	.28	.26	SFH 3219-Z
	35	—	1	980	7/8	120	475-1449-ND	.30	.25	.23	SFH 325-3/4-Z
25	70	—	3	850	24/34	120	475-1450-ND	.30	.25	.23	SFH 325 FA-3/4-Z
	5.5	—	3	570	—	120	475-1451-ND	.48	.39	.35	SFH 3400-2/3-Z
26	5.5	—	3	570	—	120	475-1452-1-ND†	.83	.69	.56	SFH 3410-2/3-Z
	35	—	5	870	13/15	40	475-1452-2-ND‡	827.64/2,000			SFH 3410-2/3-Z
25	35	—	5	870	13/15	40	475-1439-ND	.41	.33	.30	SFH 303 FA-3/4

† Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

(UK091) 2229

