

**Infrared Emitters**



Fig.	Forward Voltage (V)	Forward Current (mA)	Optical Power Output (mW/sr) @	Peak Wavelength (nm)	View Angle (°)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel ‡		Osram Part No.
							1	10	100	Qty.	Pricing	
2	1.5	100	180 typ.	850	6	475-1200-ND	.49	.39	.36	—	—	SFH4550
	1.5	100	100 typ.	880	16	475-1111-ND	.35	.28	.26	—	—	SFH484
	1.5	100	60 typ.	880	40	475-1112-ND	.35	.28	.26	—	—	SFH485
	1.3	100	63 min.	950	8	475-1461-ND	.34	.28	.26	—	—	SFH 4511
	1.5	100	80 min.	880	16	475-1468-ND	.44	.36	.33	—	—	SFH 484-2
	1.5	100	25 min.	880	40	475-1469-ND	.44	.36	.33	—	—	SFH 485-2
4	1.5	100	40 min.	880	22	475-1471-ND	.35	.28	.26	—	—	SFH 486
	1.3	100	6.3 min.	950	40	475-1086-ND	.41	.33	.30	—	—	SFH409
5	1.5	100	40 min.	850	26	475-1460-ND	.49	.39	.36	—	—	SFH 4350
	1.5	100	25 min.	880	30	475-1109-ND	.48	.40	.33	1,000	240.24	SFH4585
7	1.5	100	3.15 min.	880	80	475-1470-ND	.44	.36	.33	—	—	SFH 485 P
16	1.2	60	2.5 min.	950	18	475-1087-ND	.31	.26	.23	—	—	SFH4110
17	1.5	60	0.4 min.	950	60	475-1364-ND	.37	.30	.27	—	—	IRL 80A
	1.5	100	1.0 min.	880	50	475-1365-ND	.46	.37	.34	—	—	IRL 81A
20	1.5	70	4 min.	940	120	475-2866-1-ND	.62	.52	.41	2,000	306.81/M	SFH 4243-Z
	1.5	100	10 min.	850	120	475-1459-1-ND	.74	.63	.50	2,000	372.98/M	SFH 4250-Z
	1.5	100	4 min.	880	120	475-2869-1-ND	.82	.69	.55	2,000	410.27/M	SFH 4283-Z
23	1.5	70	4 min.	940	120	475-2867-1-ND	.62	.52	.41	2,000	306.81/M	SFH 4244-Z
	1.5	100	10 min.	850	120	475-2568-1-ND	.74	.63	.50	2,000	372.98/M	SFH 4255-Z
28	2.4	100	40 min.	850	30	475-1243-1-ND	.86	.72	.58	2,000	428.93/M	SFH4258-Z
29	1.5	200	40 min.	880	12	475-1110-ND	1.23	.99	.90	—	—	SFH480
	1.3	300	20 min.	950	12	475-1454-ND	1.31	1.05	.95	—	—	SFH 400
30	1.8	100	200 typ.	940	60	475-1272-1-ND	9.67	8.06	6.45	800	3867.86	SFH 4231
	1.5	1000	320 typ.	850	120	475-2844-1-ND	9.67	8.06	6.45	800	3054.51	SFH 4232-Z
31	1.6	70	16 min.	940	30	475-2872-1-ND	.69	.58	.47	2,000	345.07/M	SFH 4641-Z
	1.6	70	16 min.	940	30	475-2873-1-ND	.69	.58	.47	2,000	345.07/M	SFH 4646-Z
	1.5	100	40 typ.	850	30	475-1260-1-ND	.78	.66	.53	2,000	391.63/M	SFH 4655-Z
	1.5	100	16 min.	850	40	475-2569-1-ND	.78	.66	.53	2,000	391.63/M	SFH 4650-Z
	1.6	70	16 min.	850	30	475-2874-1-ND	.69	.58	.47	2,000	345.07/M	SFH 4651-Z
	1.6	70	16 min.	850	30	475-2875-1-ND	.69	.58	.47	2,000	345.07/M	SFH 4656-Z
32	18	1000	630 min.	850	60	475-1270-ND	54.95	43.97	39.84	—	—	SFH 4730
	18	1000	800 min.	850	60	475-1271-ND	54.95	43.97	39.84	—	—	SFH 4740
33	9.5	1000	630 min.	850	140	475-2845-ND	45.25	36.21	32.81	—	—	SFH4750
	9.8	1000	630 min.	940	140	475-2846-ND	45.25	36.21	32.81	—	—	SFH4751
34	1.3	300	20 min.	950	30	475-1455-ND	1.36	1.10	.99	—	—	SFH 401
35	1.3	300	4 min.	950	80	475-1397-ND	1.11	.89	.81	—	—	LD 242-2/3
36	1.3	300	25 min.	950	10	475-1465-ND	2.24	1.80	1.63	—	—	SFH 4811
	1.5	200	40 min.	880	10	475-1473-ND	1.39	1.11	1.01	—	—	SFH 4881
37	1.3	300	2.5 min.	950	70	475-1466-ND	2.24	1.80	1.63	—	—	SFH 4813
	1.5	200	4 min.	880	70	475-1474-ND	1.39	1.11	1.01	—	—	SFH 4883
38	1.5	200	5 min.	880	60	475-1467-ND	1.39	1.11	1.01	—	—	SFH 482-2/3
39	2	50	0.63 min.	660	100	475-1472-ND	3.67	2.94	2.66	—	—	SFH 4860
40	5	1.3	—	940	—	475-1475-ND	.70	.56	.51	—	—	SFH 5110-38
41	5	3	—	940	120	475-1477-1-ND	1.33	1.12	.89	1,500	666.66/M	SFH 5410-38-Z
46	1.5	100	4 min.	850	160	475-2864-1-ND	.74	.63	.50	5,000	372.98/M	SFH 4050-Z
47	1.6	70	6.3 min.	850	80	475-2865-1-ND	.59	.50	.40	2,000	297.14/M	SFH 4058
48	1.5	100	40 min.	940	40	475-2870-ND	.49	.39	.36	—	—	SFH 4546
	1.5	100	40 min.	850	40	475-2871-ND	.49	.39	.36	—	—	SFH 4556

§ Bulk    ⬠ At If = 100mA, tp = 20ms    ♦ RoHS Compliant    ‡ For Tape and Reel part number, change 1-ND to 2-ND.

**Ambient Light Sensor**



Fig.	Supply Voltage (V)	Current Consumption (µA)	Spectral Sensitivity (nm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Osram Part No.
					1	10	100			
42	6	420	475 - 650	475-1259-1-ND	1.79	1.50	1.20	475-1259-2-ND	897.90/M	SFH 5711-2/3-Z

**Schmitt-Trigger Reflective Interrupter**



Fig.	Forward Voltage (V)	Forward Current (mA) Max.	Supply Voltage (V)	Output Current (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Osram Part No.
						1	10	100			
43	1.25	50	4-18	16	475-1239-1-ND	1.47	1.23	.99	475-1239-2-ND	736.00	SFH9240-Z

**Reflective Interrupter**



Fig.	Forward Voltage (V)	Forward Current (mA) Max.	Rise/Fall Time Tr/TF (µs)	Photo Current (µA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Osram Part No.
						1	10	100			
44	1.25	50	50/50	3.5mA	475-2658-1-ND	1.26	1.05	.84	475-2658-2-ND	626.74	SFH 9201-3/4-Z

**Proximity Sensor**



Fig.	Operating Temperature (°C)	Forward Current (mA) Max.	Supply Voltage (V)	Wavelength (nm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Osram Part No.
						1	10	100			
45	-20 - 85	60	2.4 - 3.6	730 - 1080	475-2876-1-ND	2.19	1.82	1.46	475-2876-2-ND	1091.29	SFH 7740-Z
	-20 - 85	60	2.4 - 3.6	730 - 1080	475-2663-1-ND	2.19	1.82	1.46	475-2663-2-ND	1091.29	SFH 7741-Z
	-20 - 85	65	2.4 - 3.6	730 - 1080	475-2877-1-ND	2.13	1.78	1.43	475-2877-2-ND	1066.43	SFH 7743-Z

**N**

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.

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