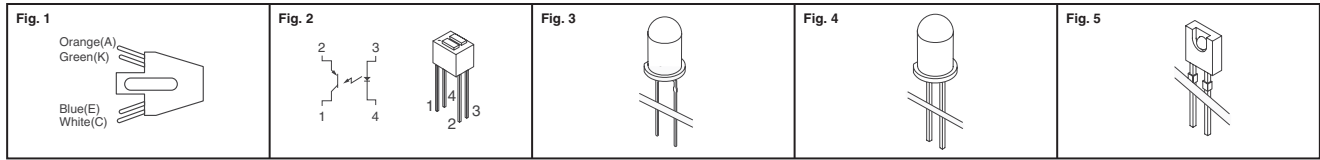


**FAIRCHILD** Infrared Photosensors and Emitters  
SEMICONDUCTOR®



**Reflective Photosensors**

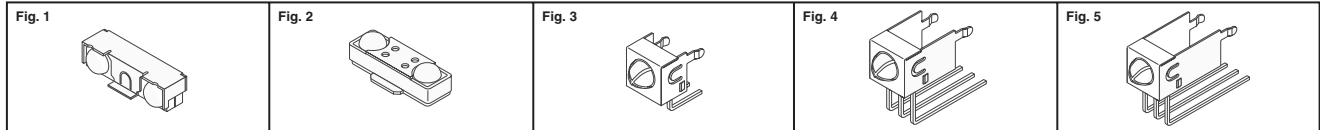
Fig.	Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termination	Digi-Key Part No.	Price Each			
						1	10	100	500
1	Transistor	6/3 @ 40mA	3.81mm	Wires	QRB1134-ND	1.25	1.12	.72	.58
2	Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	1.03	.92	.73	.56

Fig.	Forward Volt. (V)	Max. Forward Current (mA)	Minimum Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Package Type	Digi-Key Part No.	Price Each			
								1	10	100	500
1	1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND	.47	.34	.23	.16
	1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND	.47	.34	.23	.16
	1.7	100	25mW/sr	20	880	T-1 3/4	QED233-ND	.47	.34	.23	.16
4	1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND	.34	.25	.16	.12
	1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND	.34	.25	.16	.12
5	1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND	.37	.30	.22	.17
	1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND	.49	.39	.28	.22

**Semiconductor Infrared Emitters (IRED LEDs)**

Fig.	Forward Volt. (V)	Max. Forward Current (mA)	Minimum Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Package Type	Digi-Key Part No.	Price Each			
								1	10	100	500
3	1.7	50	14mW/sr	8	940	T-1	QEC113-ND	.33	.24	.16	.12
	1.7	50	27mW/sr	8	880	T-1	QEC122-ND	.35	.28	.20	.16

**ROHM** Remote Control Receivers  
SEMICONDUCTOR



**Features:** These remote control receiver modules are small sized, light-weight and low consumption. These modules have been achieved by using resin mold.

**Applications:** All household electric appliances such as TV, DVD, air conditioner and audio equipment.

**Specifications:** • Output Current: 2.0mA • Storage Temperature: -30°C ~ 100°C • Operating Temperature: -10°C ~ 75°C

Fig.	Frequency (kHz)	Viewing Type	Operating Supply Voltage	Digi-Key Part No.	Price Each			T&R Pricing 2,500	RoHM Part No.
					1	25	100		
<b>5300 Series</b>									
1	36.7	Side	3.0	RPM5337-H14E2ACT-ND‡	1.46	1.11	.88	824.68/M	RPM5337-H14E2A
	37.9	Side	3.0	RPM5338-H14E2ACT-ND‡	1.46	1.11	.88	966.74/M	RPM5338-H14E2A
2	37.9	Top	3.0	RPM5338-H12E4ACT-ND‡	1.46	1.11	.88	824.68/M	RPM5338-H12E4A
	40.0	Top	3.0	RPM5340-H12E4ACT-ND‡	1.46	1.11	.88	824.68/M	RPM5340-H12E4A
<b>5500 Series</b>									
1	36.7	Side	5.0	RPM5537-H14E2ACT-ND‡	1.46	1.11	.88	786.56/M	RPM5537-H14E2A
	37.9	Side	5.0	RPM5538-H14E2ACT-ND‡	1.46	1.11	.88	824.68/M	RPM5538-H14E2A
2	36.7	Top	5.0	RPM5537-H12E4ACT-ND‡	1.46	1.11	.88	786.56/M	RPM5537-H12E4A
	37.9	Top	5.0	RPM5538-H12E4ACT-ND‡	1.46	1.11	.88	824.68/M	RPM5538-H12E4A
<b>7136 Series</b>									
3	36.0	Top	5.0	RPM7136-H8R-ND	1.08	.62	.51	—	RPM7136-H8R
4	36.0	Top	5.0	RPM7136-H9R-ND	1.08	.62	.51	—	RPM7136-H9R
5	36.0	Top	5.0	RPM7136-H4R-ND	1.08	.62	.51	—	RPM7136-H4R
<b>7137 Series</b>									
3	36.7	Top	5.0	RPM7137-H8R-ND	1.08	.62	.51	—	RPM7137-H8R
5	36.7	Top	5.0	RPM7137-H4R-ND	1.08	.62	.51	—	RPM7137-H4R
<b>7138 Series</b>									
3	37.9	Top	5.0	RPM7138-H8R-ND	1.08	.62	.51	—	RPM7138-H8R
4	37.9	Top	5.0	RPM7138-H9R-ND	1.08	.62	.51	—	RPM7138-H9R
5	37.9	Top	5.0	RPM7138-H4R-ND	1.08	.62	.51	—	RPM7138-H4R

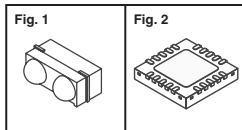
Fig.	Frequency (kHz)	Viewing Type	Operating Supply Voltage	Digi-Key Part No.	Price Each			T&R Pricing 2,500	RoHM Part No.
					1	25	100		
<b>7140 Series</b>									
3	40.0	Top	5.0	RPM7140-H8R-ND	1.08	.62	.51	—	RPM7140-H8R
4	40.0	Top	5.0	RPM7140-H9R-ND	1.08	.62	.51	—	RPM7140-H9R
5	40.0	Top	5.0	RPM7140-H4R-ND	1.08	.62	.51	—	RPM7140-H4R
<b>7236 Series</b>									
3	36.0	Top	3.0	RPM7236-H8-ND	.84	.48	.39	—	RPM7236-H8R
5	36.0	Top	3.0	RPM7236-H4R-ND	1.12	.64	.52	—	RPM7236-H4R
<b>7237 Series</b>									
3	36.7	Top	3.0	RPM7237-H8R-ND	1.12	.64	.52	—	RPM7237-H8R
4	36.7	Top	3.0	RPM7237-H9R-ND	1.12	.64	.52	—	RPM7237-H9R
5	36.7	Top	3.0	RPM7237-H4R-ND	1.12	.64	.52	—	RPM7237-H4R
<b>7238 Series</b>									
3	37.9	Top	3.0	RPM7238-H8R-ND	1.31	.74	.61	—	RPM7238-H8R
4	37.9	Top	3.0	RPM7238-H9R-ND	1.12	.64	.52	—	RPM7238-H9R
5	37.9	Top	3.0	RPM7238-H4R-ND	1.12	.64	.52	—	RPM7238-H4R
<b>7240 Series</b>									
3	40.0	Top	3.0	RPM7240-H8R-ND	1.12	.64	.52	—	RPM7240-H8R
4	40.0	Top	3.0	RPM7240-H9R-ND	1.12	.64	.52	—	RPM7240-H9R
5	40.0	Top	3.0	RPM7240-H4R-ND	1.12	.64	.52	—	RPM7240-H4R

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

**VISHAY** Semiconductor  
SEMICONDUCTOR



**IrDA®** Transceivers



Size L x W x H (mm)	Operating Voltage (V)	Link Distance (m)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel† Qty.	† Pricing	Vishay Part No.
				1	10	100			
<b>Fig. 1 — IrDA 1.152 Mbit/s</b>									
6.8 x 2.8 x 1.6	2.4 - 3.6	0 ~ ≥0.3	751-1064-1-ND	2.22	2.01	1.64	1,000	1038.81	TFBS4652-TR1
	2.4 - 3.6	0 ~ ≥0.3	751-1065-1-ND	2.22	2.01	1.64	—	—	TFBS4652-TR3
<b>Fig. 1 — IrDA 115.2 Kbit/s</b>									
6.8 x 2.8 x 1.6	2.4 - 3.6	0 ~ ≥0.3	751-1082-1-ND	2.22	2.01	1.64	1,000	1038.81	TFBS4650-TR1
	2.4 - 3.6	0 ~ ≥0.3	751-1063-1-ND	2.22	2.01	1.64	—	—	TFBS4650-TR3

Size L x W x H (mm)	Operating Voltage (V)	Link Distance (m)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel† Qty.	† Pricing	Vishay Part No.
				1	10	100			
<b>Fig. 1 — IrDA 4 Mbit/s</b>									
6.0 x 3.1 x 1.9	2.4 - 5.5	0 ~ ≥0.5	751-1066-1-ND	2.35	2.02	1.65	1,000	973.67	TFBS4711-TR1
	2.4 - 5.5	0 ~ ≥0.5	751-1067-1-ND	2.12	1.91	1.56	2,500	940.40/M	TFBS4711-TR3
	2.4 - 5.5	0 ~ ≥0.5	751-1068-1-ND	2.35	2.02	1.65	1,000	973.67	TFBS4711-TR1
9.7 x 4.7 x 4.0	2.4 - 5.5	0 ~ ≥1.0	751-1070-1-ND	3.92	3.54	2.88	1,000	1830.91	TFDU4101-TR3
	2.4 - 5.5	0 ~ ≥1.0	751-1071-1-ND	3.92	3.54	2.88	1,000	1830.91	TFDU4101-TR3
<b>Fig. 2 — IC SIR Endec IrDA 2.4 Kbit/s ~ 115.2 Kbit/s</b>									
8.5 x 3.1 x 2.5	2.4 - 3.6	0 ~ ≥0.7	751-1082-1-ND	3.28	2.96	2.42	2,500	1457.38/M	TFDU6300-TR3
	2.4 - 3.6	0 ~ ≥0.7	751-1083-1-ND	3.28	2.96	2.42	2,500	1457.38/M	TFDU6300-TR3
<b>Fig. 2 — IC SIR Endec IrDA 2.4 Kbit/s ~ 115.2 Kbit/s</b>									
4.0 x 4.0 x 0.75	2.7 - 3.6	—	751-1491-1-ND	5.05	4.58	3.82	6,000	2382.54/M	TOIMS232-TR3
10.4 x 10.3 x 2.4	2.7 - 3.6	—	751-1200-1-ND	5.05	4.58	3.82	1,500	2573.11/M	TOIM4232-TR3

† For Tape and Reel part number, change 1-ND to 2-ND.

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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