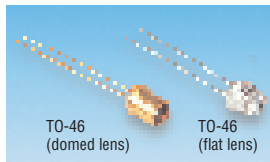


Infra-Red Emitters – Sealed Metal Package



Light Output mW @ I _F (mA)	Half Angle	Peak Wavelength	Switching t _r , t _f (μs)	Mfr.	Mfrs. List No.
TO-46 Narrow Angle (Domed Lens)					
9 @ 100	20°	880nm	1.5	QT	F5D2
3.5 @ 100	15°	940nm	1.0	QT	LED55B
5 @ 100	18°	935nm	1.0, 0.50	Optek	OP133
5.4 @ 100	15°	940nm	1.0	QT	LED55C
◆ 2.6 – 5.9mW/cm ² @ 100	20°	880nm	0.6	HWL	SE5470-3
TO-46 Wide Angle (Flat Lens)					
12 @ 100	80°	880nm	1.5	QT	F5E1

◆ Power emitted about the mechanical axis of the package into 6.35mm dia. aperture placed 36.3mm from top of flange.

OPT142

Mfrs. List No.	Order Code	1+	25+	100+	1K+
TO-46 Narrow Angle					
F5D2	327-323				
LED55B	327-335				
OP133	316-7549				
LED55C	327-347				
SE5470-3	327-359				
TO-46 Wide Angle					
F5E1	327-384				

Infra-Red Emitter – Panel Mounting, IP67 Rated



- Special optics to give a high radiant intensity: 7.2mW/sr
- 30° viewing angle
- Pulsed forward current: 1.2A
- Pulse width: <10μs
- Wavelength: 940nm
- Operating temperature: -45°C to +80°C
- Duty ratio: 1:100
- Reverse voltage: 5V
- **IP67 Rated**

Body L = 15, Bezel dia. = 13, Bezel H = 7, Thread = M8 0.75, Cathode = Short Lead

OPT606

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
19200000	301-2189					

Infra-Red Emitter – Panel Mounting.



CQW13 infra-red emitter in bright plated housing with mirror reflector and optical system, giving high radiation intensity (720mW/Sr typ.) and greatly increased transmission distance. Designed for pulse operation (1.5A max).

Body L = 18, Bezel dia. = 13, Thread = M8#0.75, Short Lead: Cathode

Half angle	20° typ.	Switching time	1.0μs
Peak response	950nm	Temperature range	-25°C to +100°C

OPT144

Mfrs. List No.	Order Code	1+	25+	100+
RTM5070	327-414			

PIN Photodiode Detector – Plastic Package

EG & G VACTEC



- Blue enhanced silicon PIN photodiode
- Excellent for monitoring ambient visible light
- Industry standard in street light control and security lighting markets
- Includes filter which removes sensitivity to unwanted infra-red
- For applications involving visible light
- Active area: 5.16mm²
- Spectral range: 330-720 nm

H = 6.0, W = 8.0, D = 1.8
Cathode identified by dot on body

OPT553

Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
VTB8440B	139-804					

Photodiode Detectors - High output with filter options SILONEX



- Standard, I_n and BG spectral response
- High output for package size
- Active area: 9.8mm² & 2.0mm²

Housed in epoxy coated ceramic packages, these devices feature high photocurrent output for the package size. Available in standard spectral response, I_n filtered (for daylight rejection applications) and BG filtered (for daylight sensing applications). With two active areas available these devices are an excellent balance of performance and economy.

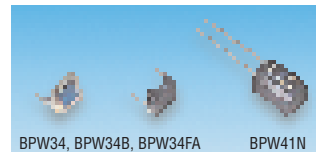
	Short circuit current (typ.) @ 25mW/cm ²	Breakdown Voltage V @ I _n 100μA	Spectral Peak (nm)	T _r /T _f	Order Code
SLD-70 BG2A	65μA	50	550 ⁽¹⁾	4.0/6.0	316-8402
SLD-70 IR2A	650μA	50	990 ⁽²⁾	4.0/6.0	316-8414
SLD-70 C2A	700μA	50	930 ⁽³⁾	4.0/6.0	316-8426
SLD-70 C1A	180μA	50	930 ⁽³⁾	1.0/1.5	317-7397
SLD-70 IR1A	100μA	50	990 ⁽²⁾	1.0/1.5	316-8440

⁽¹⁾ Low I_n response, ⁽²⁾ Low visible wavelength response, ⁽³⁾ Standard photodiode response

OPT693

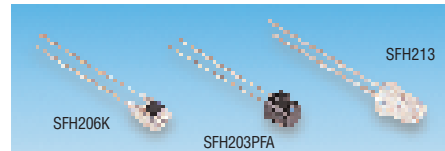
Mfrs. List No.	Order Code	1+	25+	100+	250+
SLD-70 BG2A	316-8402				
SLD-70 IR2A	316-8414				
SLD-70 C2A	316-8426				
SLD-70 C1A	317-7397				
SLD-70 IR1A	316-8440				

Photodiode Detectors – Plastic Package



BPW34: H = 4.3, W = 4.7, D = 2.8
BPW34B, BPW34FA: H = 4.0, W = 4.5, D = 2.2
Lead pitch = 5.1, Ident = Cathode

BPW41N (side viewing)
H = 6.8, W = 5.0, D = 4.0
Lead pitch = 2.5, Ident = Cathode



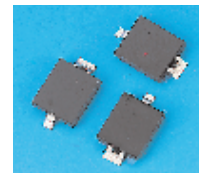
SFH206K (side viewing) H = 6.8, Dia = 5.0 Lead pitch = 2.54 Chamfer = Cathode

SFH203P, SFH203PFA 5mm/T1¾ flat top, H = 4.2 Lead pitch = 2.54 Flat = Cathode

SFH213 5mm/T1¾ Lead pitch = 2.54 Flat = Cathode



SFH203-FA, SFH213-FA 5mm/T¾ Lead pitch = 2.54 Flat Cathode



H = 1.15, W = 4.4, D = 38.5 (6.45 including pins)

Sensitivity @ λ = 850nm	Active Area	Half Angle	Peak Response	Response t _r , t _f (μs)	Mfr.	Mfrs. List No.
0.62A/W	7.5mm ²	60°	900nm	0.05	VISH	BPW34
0.2A/W	7.45mm ²	60°	850nm	0.35	Infineon	● BPW34-B
0.59A/W	7.0mm ²	60°	950nm	0.4	Infineon	◆ BPW34-FA
0.62A/W	7.0mm ²	60°	850nm	0.001	Infineon	BPW34S
0.59A/W	7.0mm ²	60°	950nm	0.002	Infineon	◆ BPW34FS
0.6A/W	7.5mm ²	65°	940nm	0.05	VISH	◆ BPW41N
0.62A/W	7.0mm ²	70°	850nm	0.35	Infineon	SFH206K
0.62A/W	1.0mm ²	20°	850nm	0.005	Infineon	SFH213
0.59A/W	1.0mm ²	20°	900nm	0.005	Infineon	◆ SFH213-FA
0.62A/W	1.0mm ²	60°	850nm	0.002	Infineon	SFH203P
0.59A/W	1.0mm ²	60°	900nm	0.002	Infineon	◆ SFH203PFA
0.59A/W	1.0mm ²	20°	900nm	0.002	Infineon	◆ SFH203-FA

◆ with IR filter (filters out daylight).

● Blue enhanced response – sensitivity at λ = 400nm.

OPT128

Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
BPW34	327-426					
BPW34-B	212-696					
BPW34-FA	212-702					
BPW34S	249-403					
BPW34FS	249-415					
BPW41N	327-438					
SFH213	882-070					
SFH213-FA	882-082					
SFH206K	212-714					
SFH203	212-726					
SFH203PFA	212-738					
SFH203-FA	212-751					

continued