

L2204 series



4-pin plastic package, infrared LED

Features

- High radiant output power
- High reliability
- Long life

Applications

- Optical switches
- Automatic control systems

Absolute maximum ratings (Ta=25 °C)

Parameter	Symbol	Condition	Value	Unit
Forward current	I _F		65	mA
Reverse voltage	V _R		5	V
Pulse forward current	I _{FP}	Pulse width=10 μs Duty ratio=1%	1.0	A
Operating temperature	T _{opr}		-25 to +80	°C
Storage temperature	T _{stg}		-30 to +100	°C

Note: Exceeding the absolute maximum ratings even momentarily may cause a drop in product quality. Always be sure to use the product within the absolute maximum ratings.

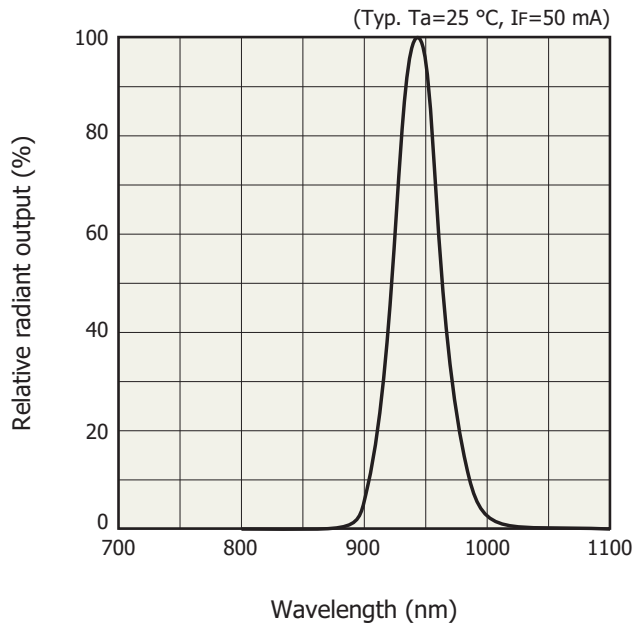
Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	L2204/-01/-03			Unit
			Min.	Typ.	Max.	
Peak emission wavelength	λ _p	I _F =50 mA	920	945	970	nm
Spectral half width	Δλ	I _F =50 mA	-	40	-	nm
Forward voltage	V _F	I _F =50 mA	-	1.30	1.40	V
Pulse forward voltage	V _{FP}	I _F =1 A*1	-	2.3	2.6	V
Reverse current	I _R	V _R =5 V	-	-	5	μA
Radiant flux	φ _e	I _F =50 mA	4.0	6.0	-	mW
Radiant illuminance	P _E	I _F =50 mA	-	0.5	-	mW/cm ²
Rise time	t _r	I _F =50 mA, 10 to 90%	-	1.2	2.0	μs
Fall time	t _f	I _F =50 mA, 90 to 10%	-	1.3	2.0	μs

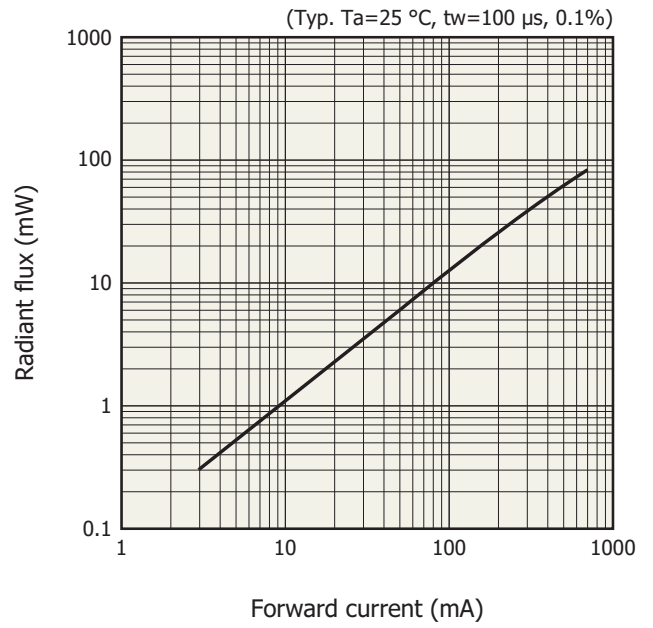
*1: Pulse width 100 μs, duty ratio 0.1%

These products do not support reflow soldering. Solder them by hand.

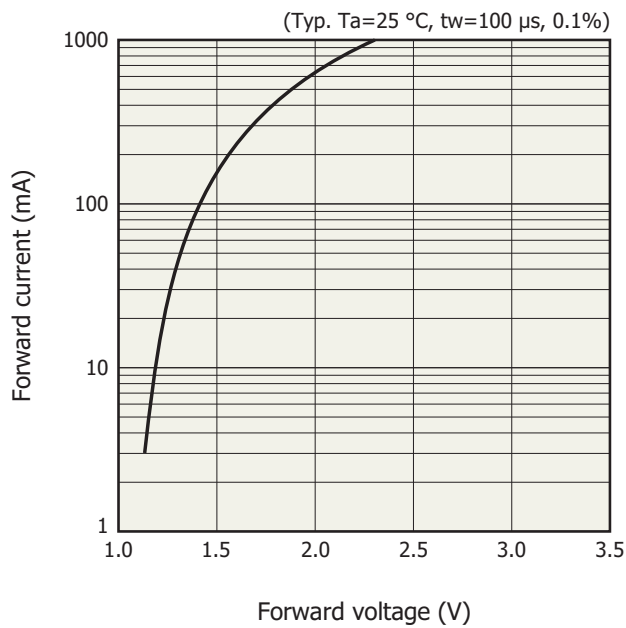
Emission spectrum



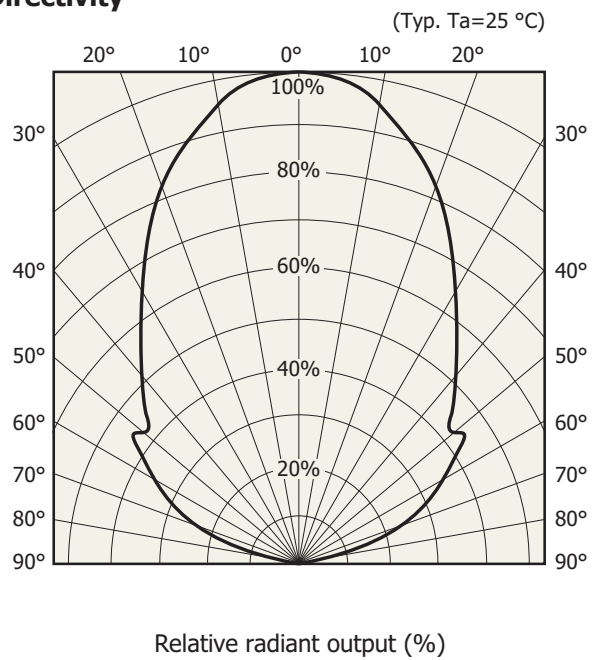
Radiant flux vs. forward current



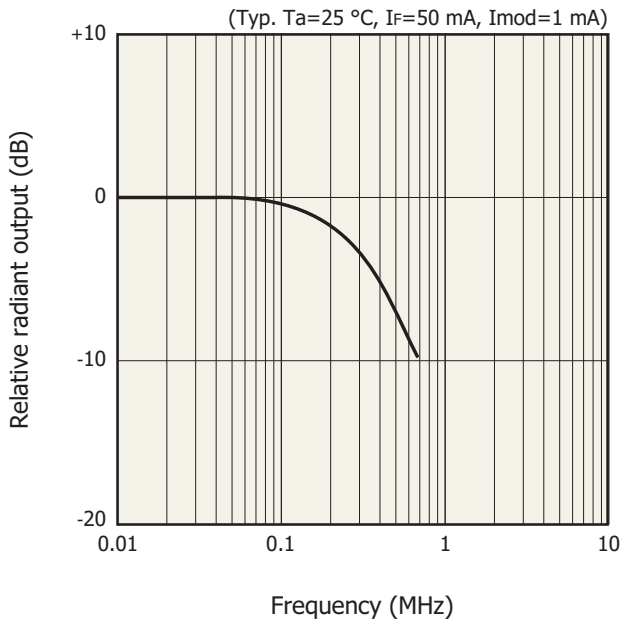
Forward current vs. forward voltage



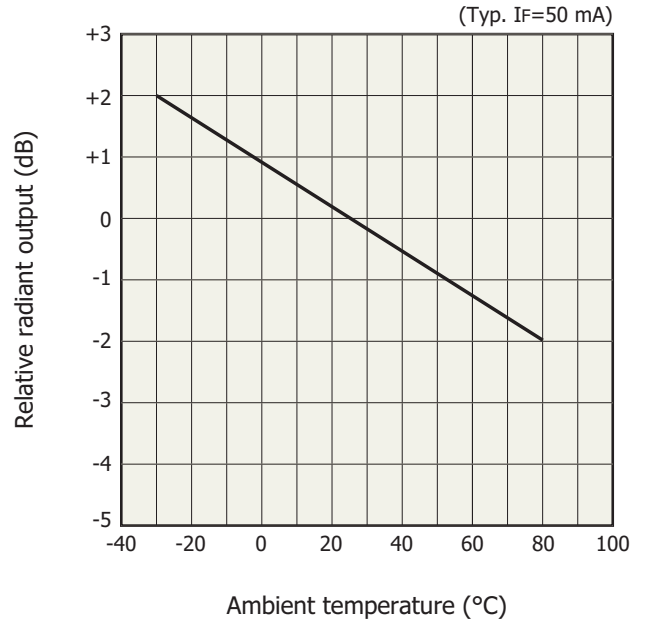
Directivity



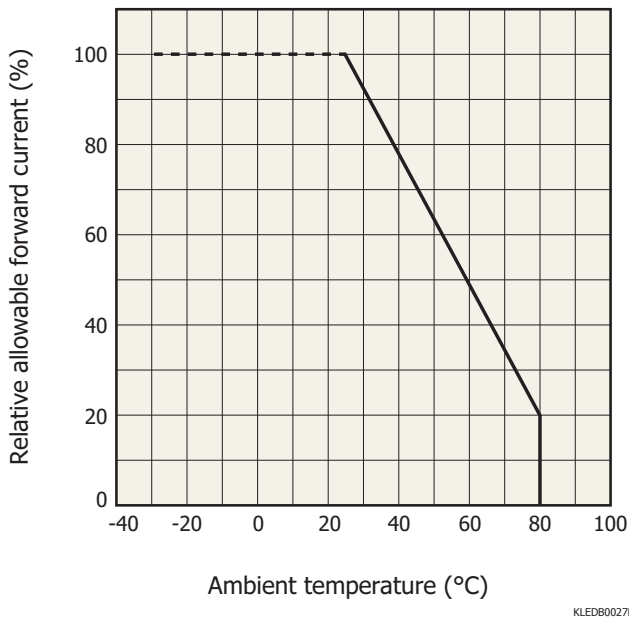
Frequency response



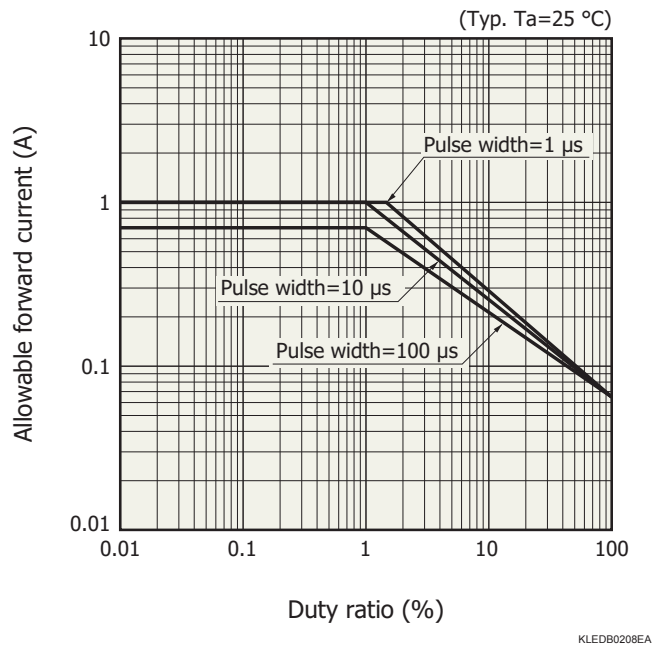
Radiant output vs. ambient temperature



Allowable forward current vs. ambient temperature

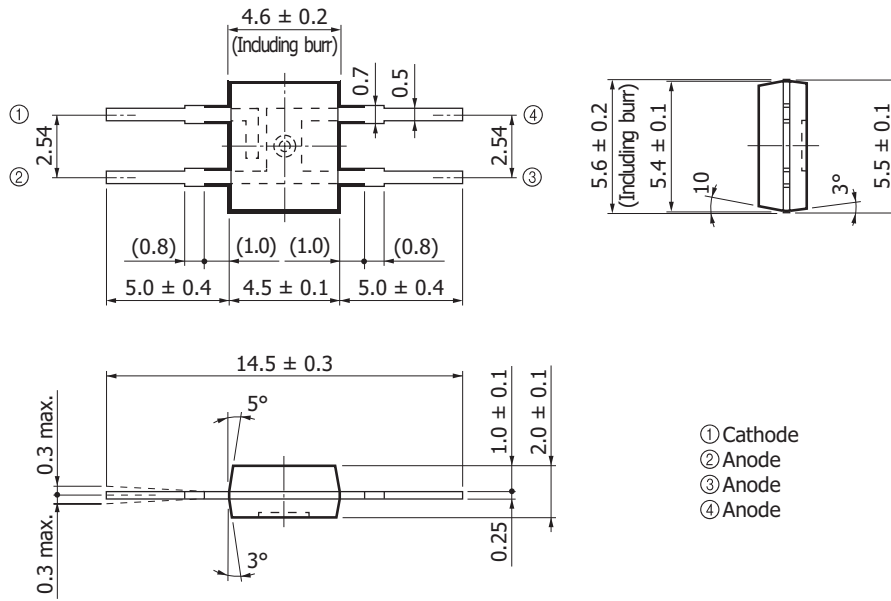


Allowable forward current vs. duty ratio



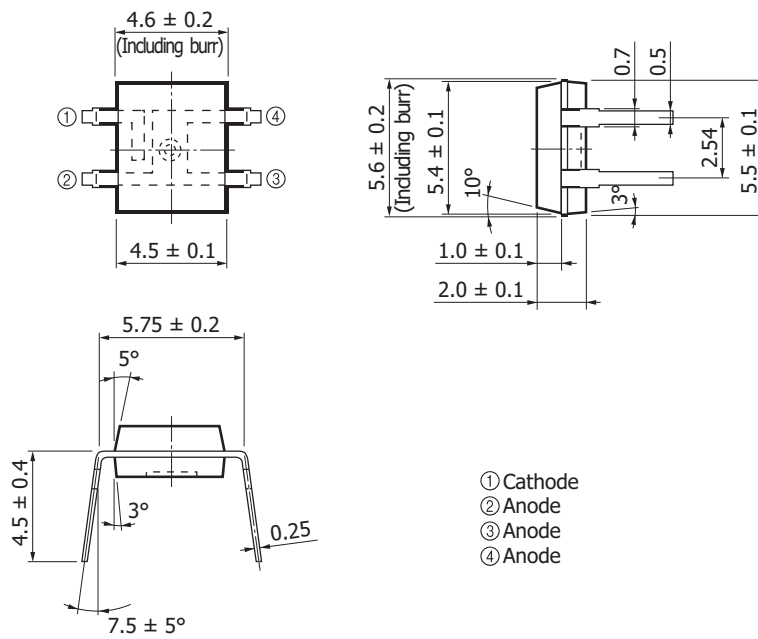
Dimensional outlines (unit: mm)

L2204



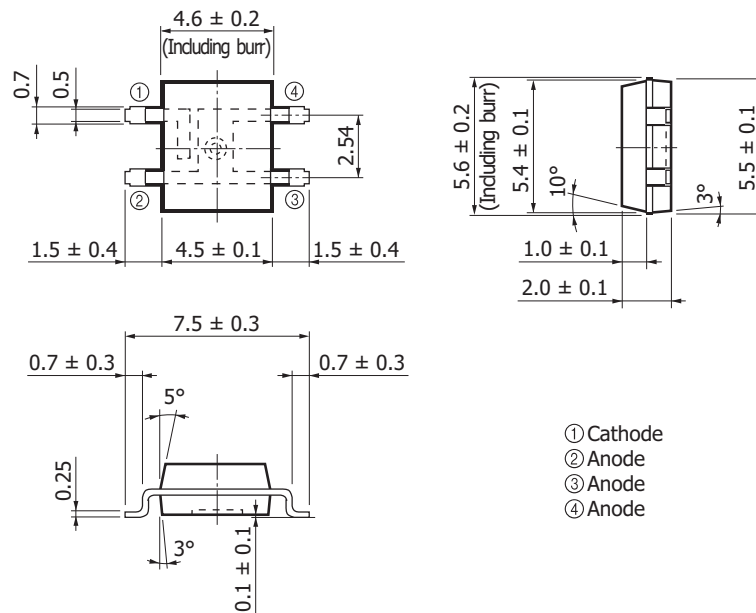
KLEDA0016EB

L2204-01



KLEDA0017EB

L2204-03



KLEDA0054EB

Information described in this material is current as of November 2018.

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HAMAMATSU

www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Solid State Division

1126-1 Ichino-cho, Higashi-ku, Hamamatsu City, 435-8558 Japan, Telephone: (81) 53-434-3311, Fax: (81) 53-434-5184

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, N.J. 08807, U.S.A., Telephone: (1) 908-231-0960, Fax: (1) 908-231-1218, E-mail: usa@hamamatsu.com

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49) 8152-375-0, Fax: (49) 8152-265-8, E-mail: info@hamamatsu.de

France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: 33-(1) 69 53 71 00, Fax: 33-(1) 69 53 71 10, E-mail: infos@hamamatsu.fr

United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, United Kingdom, Telephone: (44) 1707-294888, Fax: (44) 1707-325777, E-mail: info@hamamatsu.co.uk

North Europe: Hamamatsu Photonics Norden AB: Torshamnsgatan 35 16440 Kista, Sweden, Telephone: (46)8-509 031 00, Fax: (46)8-509 031 01, E-mail: info@hamamatsu.se

Italy: Hamamatsu Photonics Italia S.r.l.: Strada della Moia, 1 int. 6, 20020 Arese (Milano), Italy, Telephone: (39)02-93 58 17 33, Fax: (39)02-93 58 17 41, E-mail: info@hamamatsu.it

China: Hamamatsu Photonics (China) Co., Ltd.: B1201, Jiaming Center, No.27 Dongsanhuan Beilu, Chaoyang District, Beijing 100020, China, Telephone: (86) 10-6586-6006, Fax: (86) 10-6586-2866, E-mail: hpc@hamamatsu.com.cn

Taiwan: Hamamatsu Photonics Taiwan Co., Ltd.: 8F-3, No. 158, Section2, Gongdao 5th Road, East District, Hsinchu, 300, Taiwan R.O.C. Telephone: (886)03-659-0080, Fax: (886)03-659-0081, E-mail: info@hamamatsu.com.tw