

Infrared LED

L5586 L6286



Subminiature LED

L5586 and L6286 are infrared LED molded into a subminiature, clear plastic package.

Features

- Peak emission wavelength: 940 nm
- High output power (L6286)
- Subminiature plastic package with lens

Applications

- Optical switches
- Cameras
- Encoders

Absolute maximum ratings (Ta=25 °C)

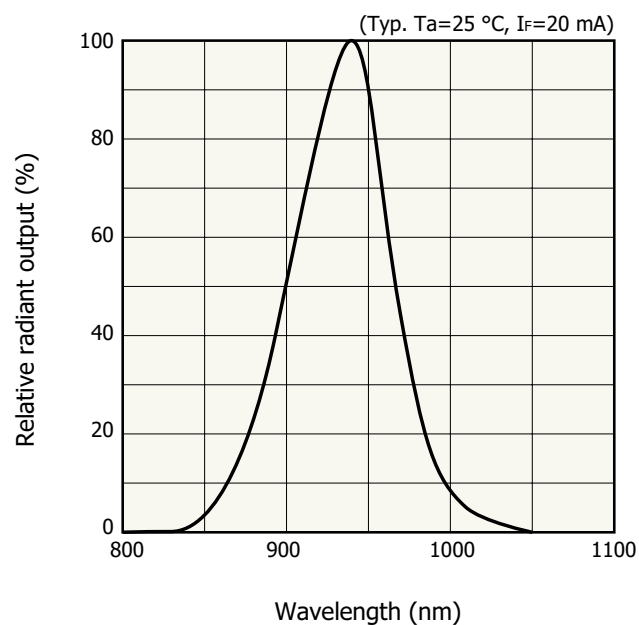
Parameter	Symbol	Condition	Value	Unit
Forward current	IF		50	mA
Reverse voltage	VR		5	V
Pulse forward current	IFP	Pulse width: 100 µs Duty ratio: 1 %	0.5	A
Power dissipation	Po		75	mW
Operating temperature	Topr		-25 to +85	°C
Storage temperature	Tstg		-30 to +85	°C
Soldering	-		260 °C, 3 s at least 2.5 mm away from package surface	-

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.

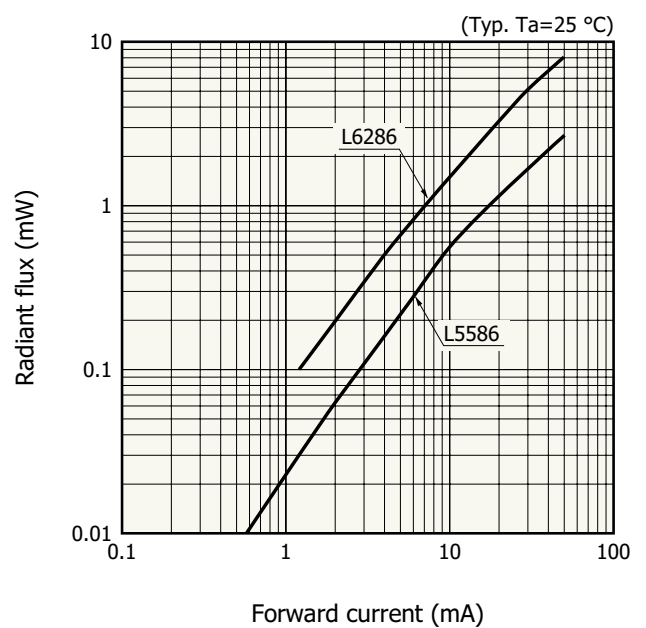
Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	L5586			L6286			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Peak emission wavelength	λ_p	IF=20 mA	-	940	-	-	940	-	nm
Spectral half width	$\Delta\lambda$	IF=20 mA	-	45	-	-	45	-	nm
Forward voltage	VF	IF=20 mA	-	1.25	1.45	-	1.25	1.45	V
Reverse current	IR	VR=5 V	-	-	10	-	-	10	µA
Radiant flux	ϕ_e	IF=20 mA	0.5	-	-	0.8	-	-	mW
Terminal capacitance	Ct	VR=0 V, f=1 MHz	-	20	-	-	20	-	pF

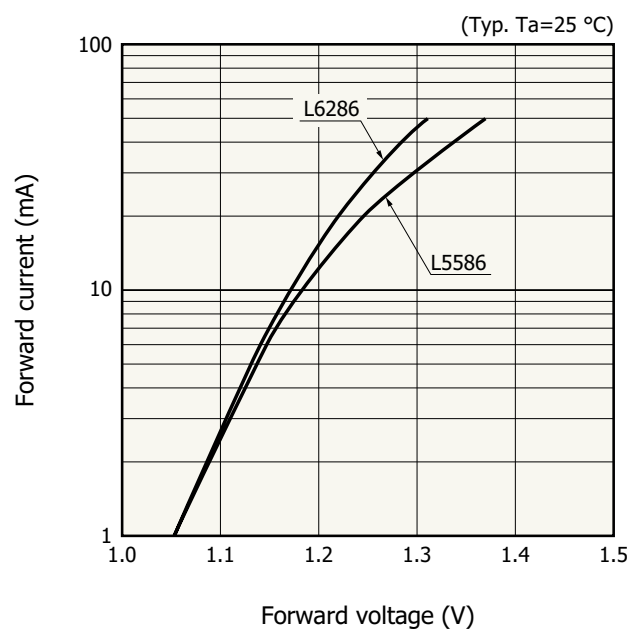
Emission spectrum



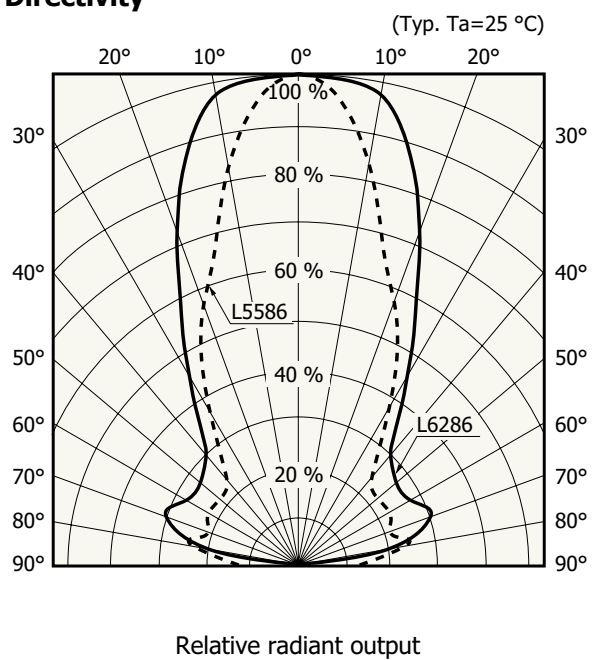
Radiant flux vs. forward current



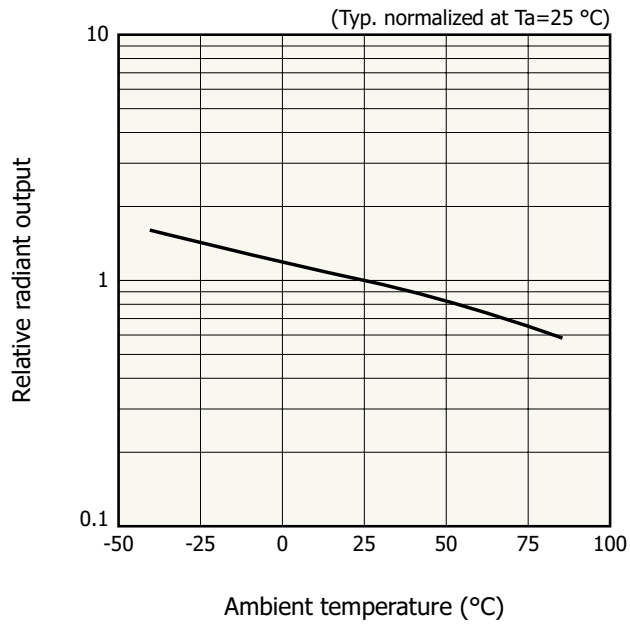
Forward current vs. forward voltage



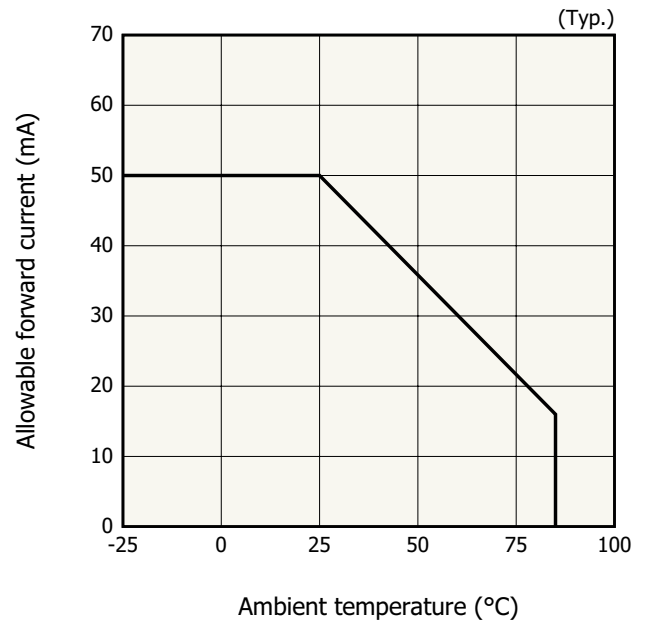
Directivity



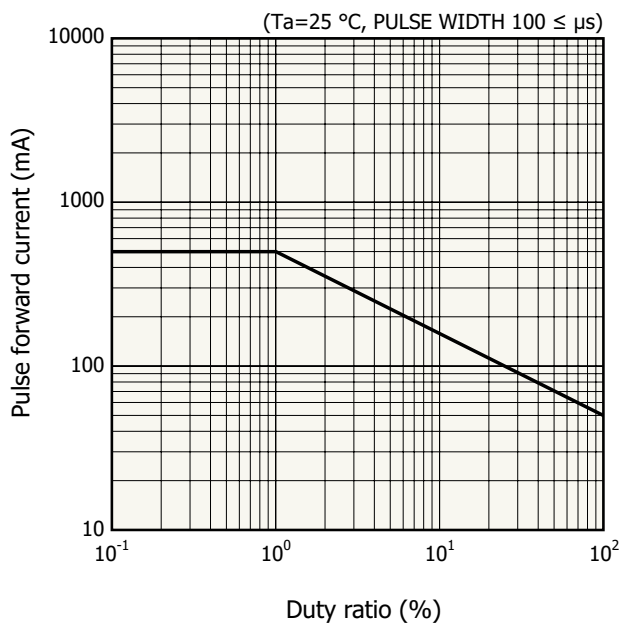
❖ Radiant output vs. ambient temperature



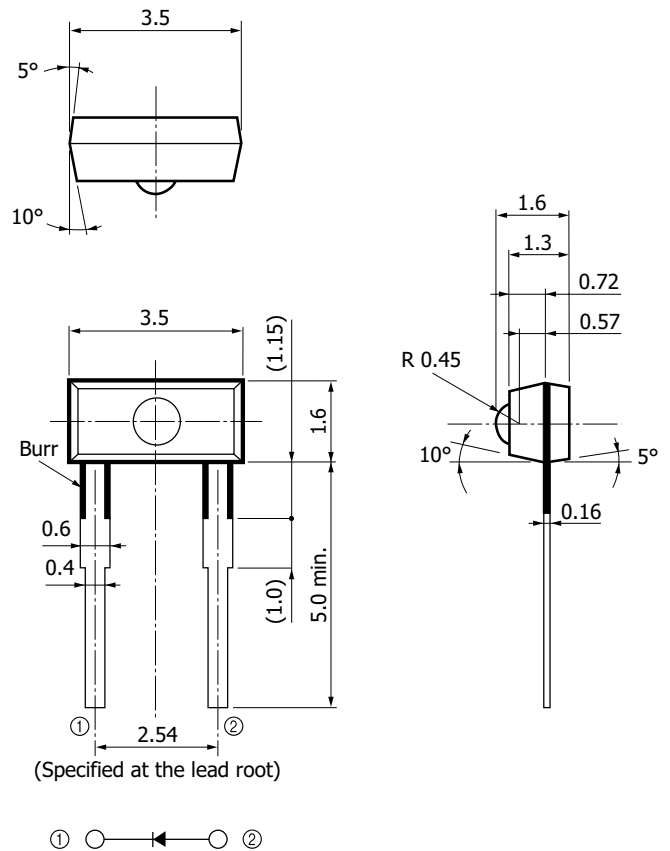
❖ Allowable forward current vs. ambient temperature



❖ Pulse forward current vs. duty ratio



❖ Dimensional outline (unit: mm)



Shaded area indicates burr.

Tolerance unless otherwise noted: ± 0.2 , $\pm 2^{\circ}$

Values in parentheses are not guaranteed, but for reference.

KLEDA0023EB

■ Related information

www.hamamatsu.com/sp/ssd/doc_en.html

■ Precautions

- Disclaimer
- Precaution / Metal, ceramic, plastic package products

■ Catalogs

- Technical note / LED

Information described in this material is current as of September 2026.

Product specifications are subject to change without prior notice due to improvements or other reasons. This document has been carefully prepared and the information contained is believed to be accurate. In rare cases, however, there may be inaccuracies such as text errors. Before using these products, always contact us for the delivery specification sheet to check the latest specifications.

The product warranty is valid for one year after delivery and is limited to product repair or replacement for defects discovered and reported to us within that one year period. However, even if within the warranty period we accept absolutely no liability for any loss caused by natural disasters or improper product use. Copying or reprinting the contents described in this material in whole or in part is prohibited without our prior permission.