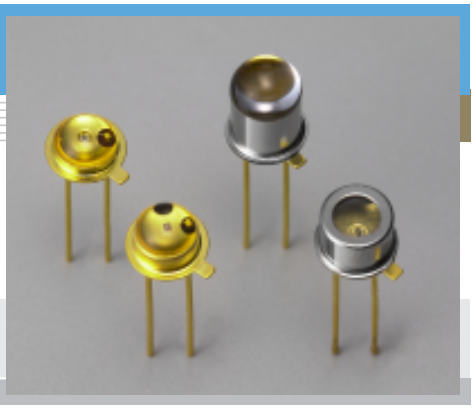
Red LED
L3882, L6108, L6112 series

High output red LED



Features

- High reliability
- High radiant output power

Applications

- Optical switch, etc.

■ Absolute maximum ratings (Ta=25 °C)

Type No.	Forward current I_F (mA)	Reverse voltage V_R (V)	Pulse forward current *1 I_{FP} (A)	Operating temperature Topr (°C)	Storage temperature *2 Tstg (°C)
L3882	80	5	0.8	-30 to +85	-40 to +100
L6108	70		0.6		
L6112					
L6112-01					
L6112-02					

*1: Pulse width=10 µs, Duty ratio=1 %
*2: Guaranteed to resist temperature cycle test of up to 5 cycles.

■ Electrical and optical characteristics (Typ. Ta=25 °C, unless otherwise noted)

Type No.	Peak emission wavelength λp I_F=20 mA			Spectral half width Δλ I_F=20 mA	Forward voltage V_F I_F=20 mA		Pulse forward voltage V_{FP} I_F= I_{FP}		Reverse current I_R V_R=5 V	Radiant flux φe I_F=20 mA		Radiant illuminance P_E I_F=50 mA	Cut-off frequency fc I_F=50 mA + 1mAp-p
	Min. (nm)	Typ. (nm)	Max. (nm)	(nm)	Typ. (V)	Max. (V)	Typ. (V)	Max. (V)	Max. (µA)	Min. (mW)	Typ. (mW)	(mW/cm²)	(MHz)
L3882	640	660	685	20	1.8	2.0	4.9	7.0	20	1.4	1.8	0.3	5.0
L6108	650	670	700	25		2.1				4.0	5.5	0.5	
L6112												1.5	
L6112-01										1.8	2.5	4.0	
L6112-02												1.5	

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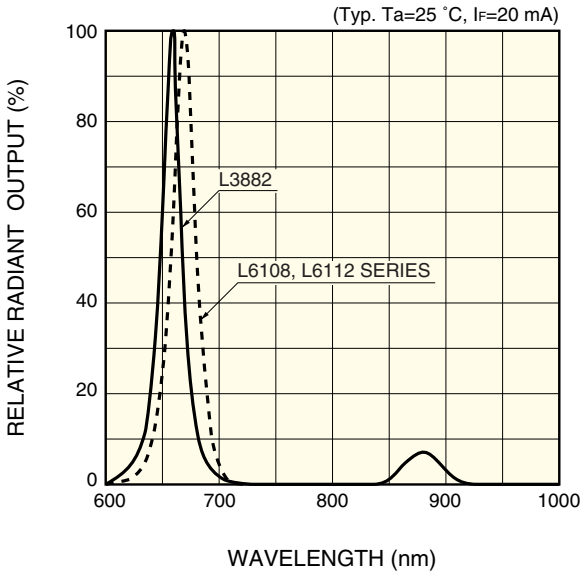
■ Emission spectrum



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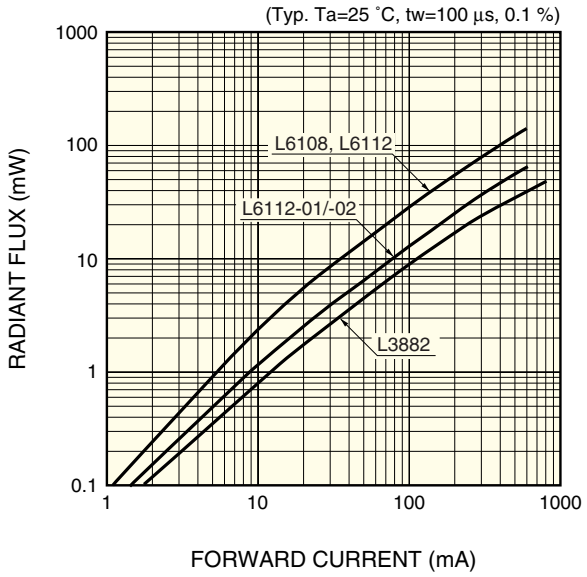
■ Radiant flux vs. forward current



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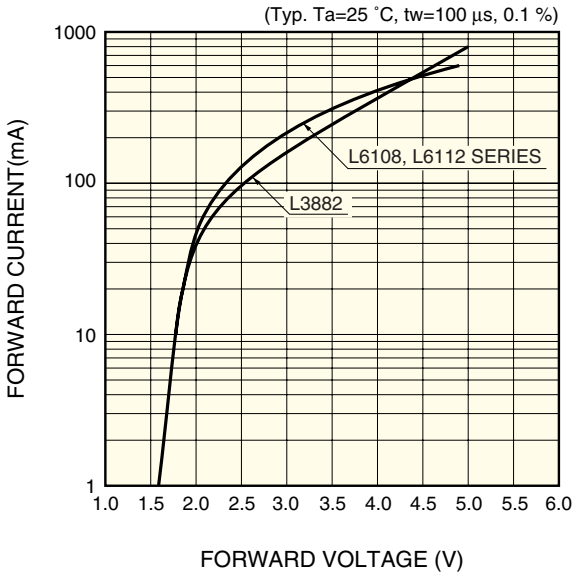
■ Forward current vs. forward voltage



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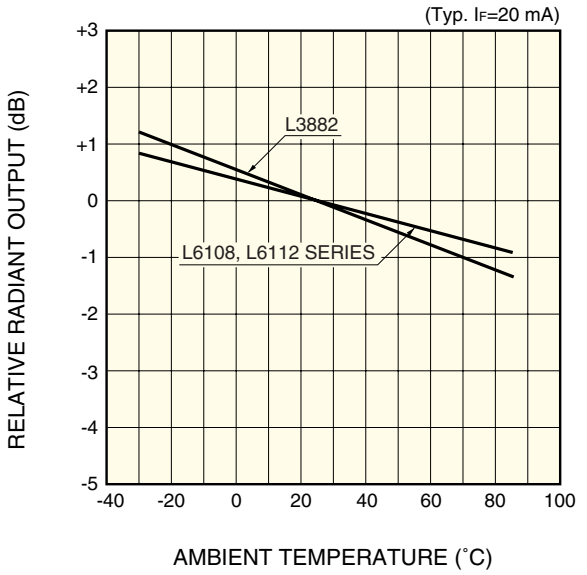
■ Radiant output vs. ambient temperature



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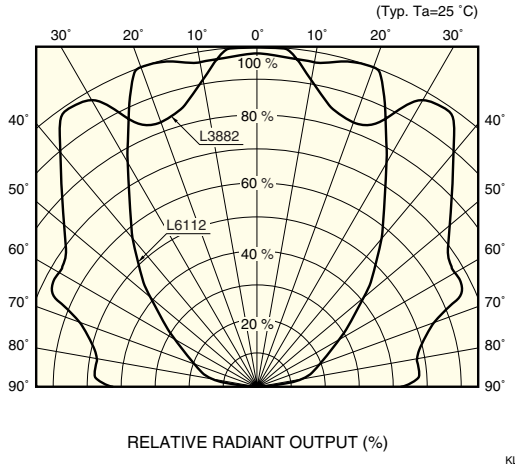
■ Directivity

L3882, L6112



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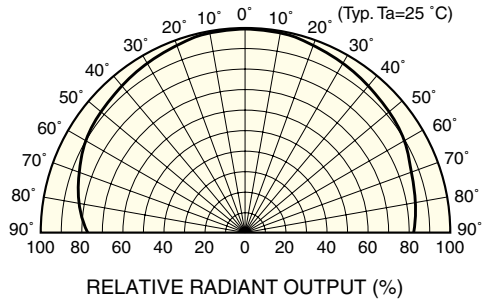
L6108



Except for reflection ingredient of the base.

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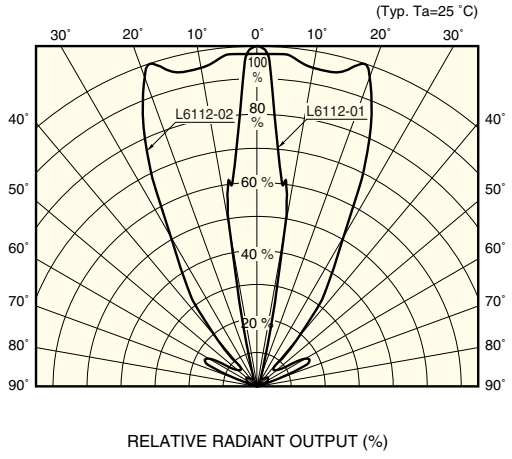
L6112-01/-02



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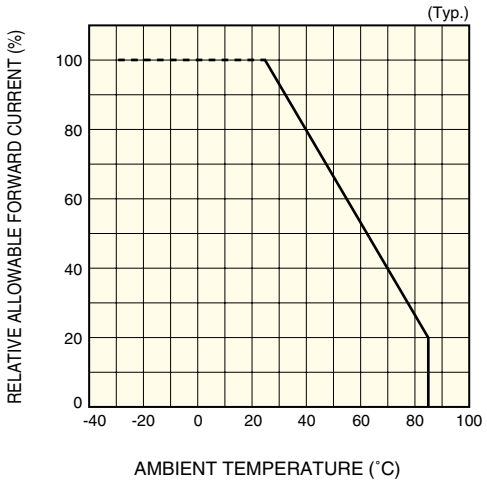
■ Allowable forward current vs. ambient temperature



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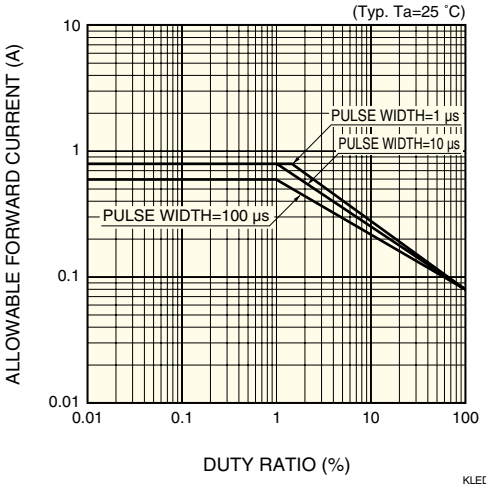
■ Allowable forward current vs. duty ratio

L3882



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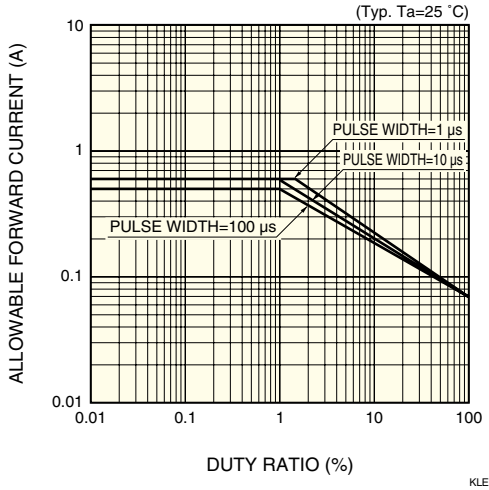
L6108, L6112 series



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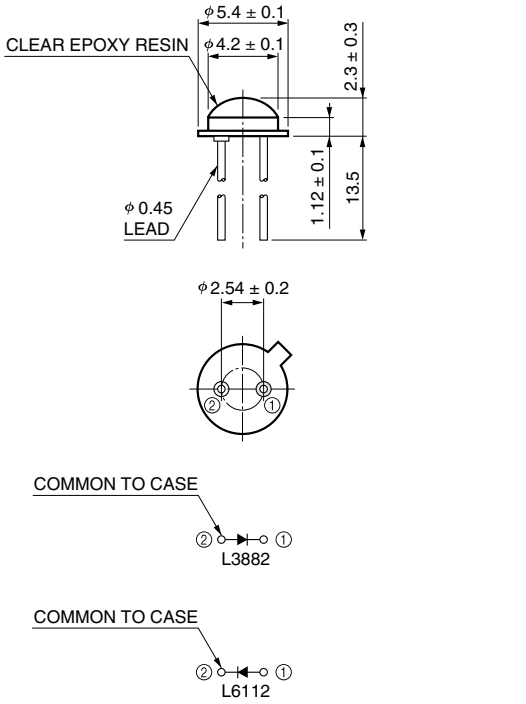
■ Dimensional outlines (unit: mm)

L3882, L6112



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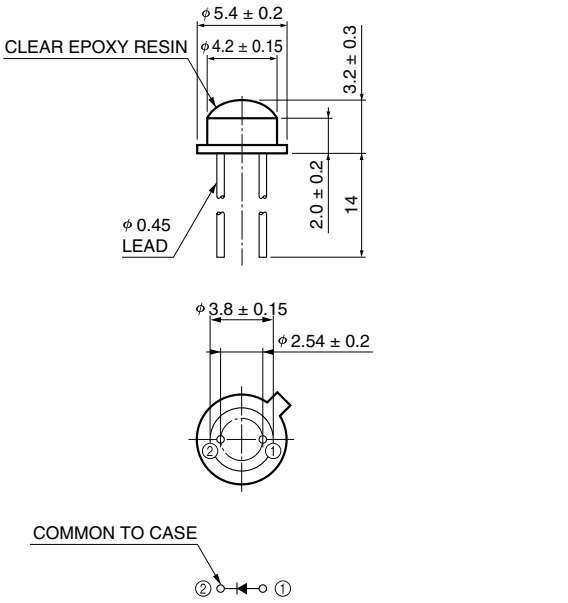
L6108



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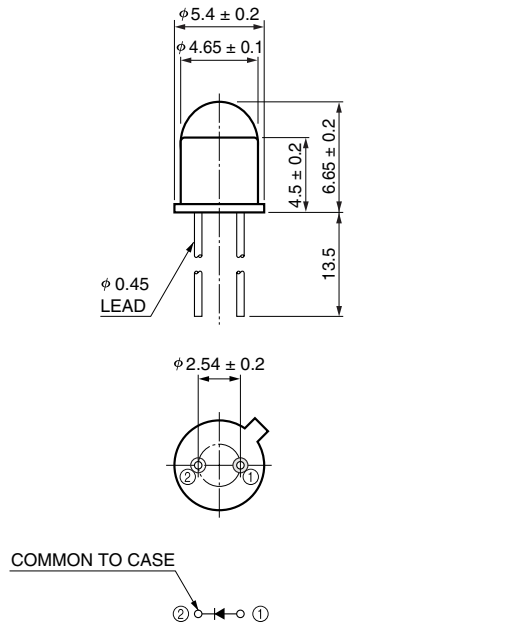
L6112-01



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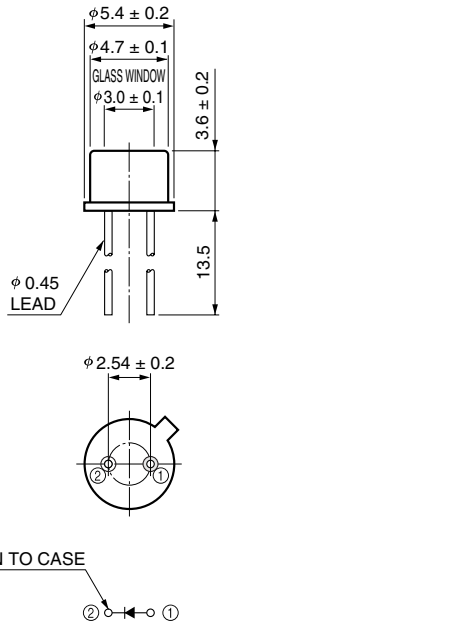
L6112-02



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Cat. No. KLED1028E01
Apr. 2001 DN