

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 T _{opr} (°C)	Storage temperature *2 T _{stg} (°C)
L3882	80	5	0.8	-30 to +85	-40 to +100
L6108	70		0.6		
L6112					
L6112-01					
L6112-02					

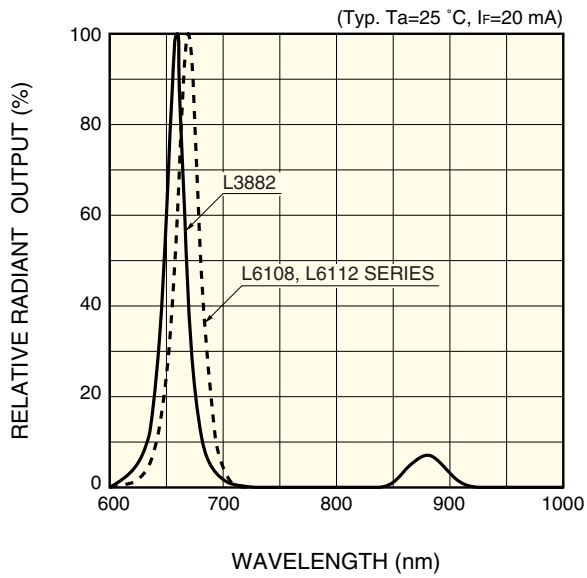
*1: Pulse width=10 μs, Duty ratio=1 %

*2: Guaranteed to resist temperature cycle test of up to 5 cycles.

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

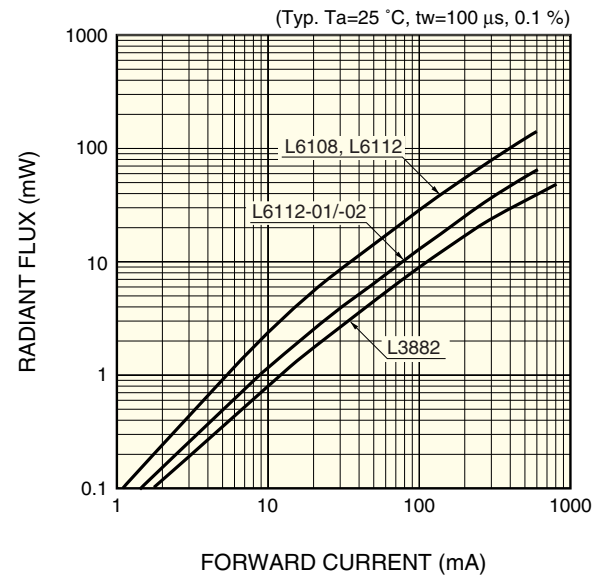
Type No.	Peak emission wavelength λp IF=20 mA			Spectral half width Δλ IF=20 mA (nm)	Forward voltage VF IF=20 mA		Pulse forward voltage VFP IF= IFP		Reverse current IR VR=5 V Max. (μA)	Radiant flux φe IF=20 mA		Radiant illuminance PE IF=50 mA (mW/cm²)	Cut-off frequency fc IF=50 mA + 1mA _{p-p} (MHz)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

■ Emission spectrum



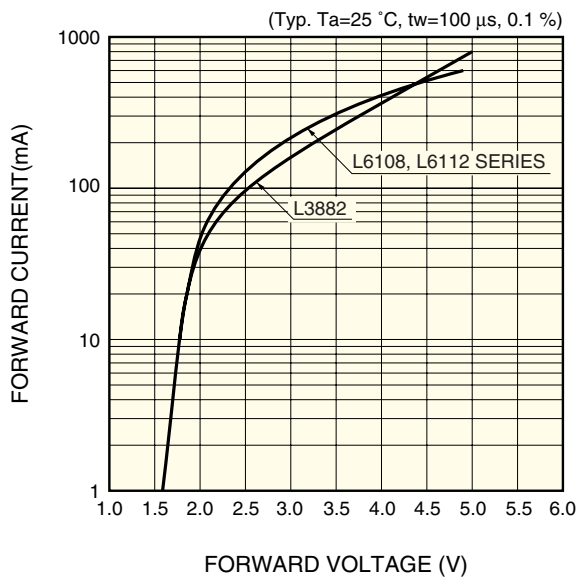
KLEDB0185EA

■ Radiant flux vs. forward current



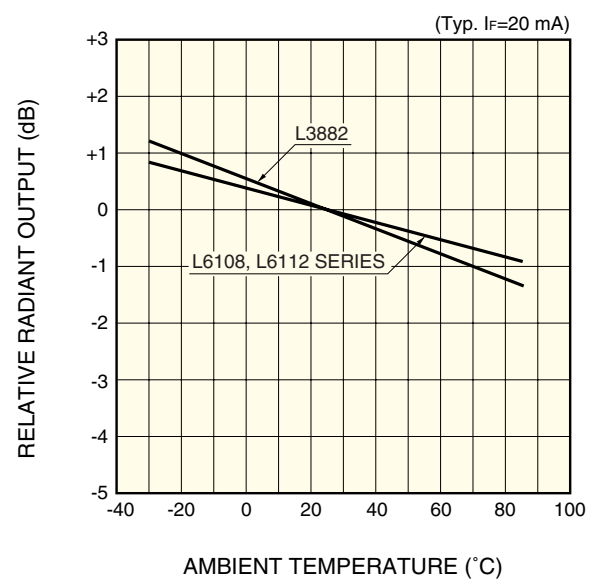
KLEDB0186EA

■ Forward current vs. forward voltage



KLEDB0187EA

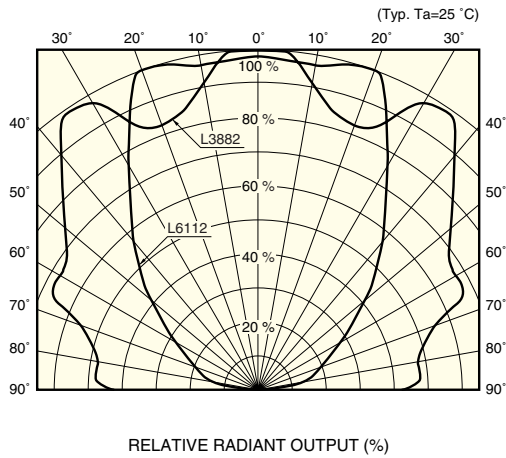
■ Radiant output vs. ambient temperature



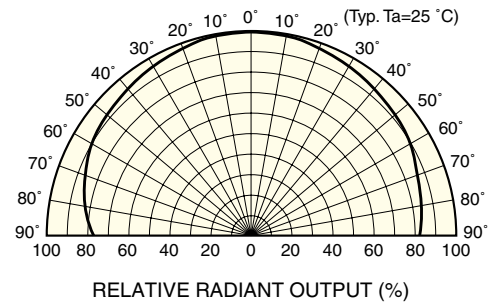
KLEDB0188EA

■ Directivity

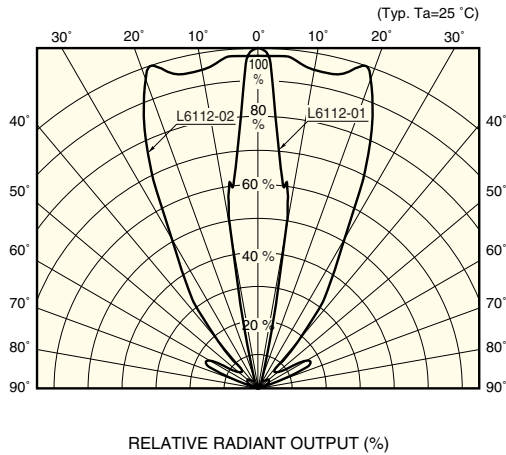
L3882, L6112



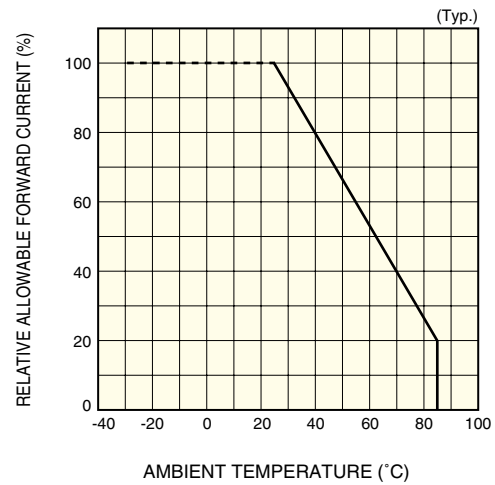
L6108



L6112-01/-02

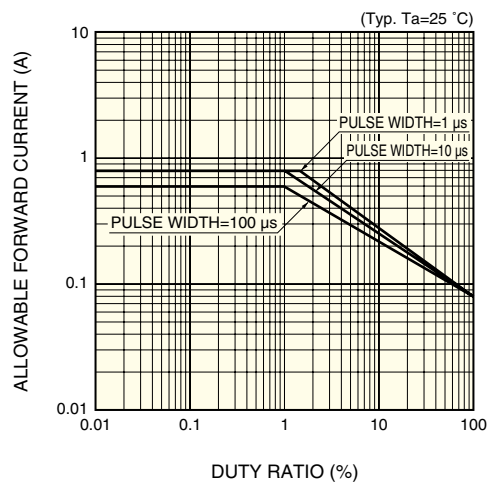


■ Allowable forward current vs. ambient temperature

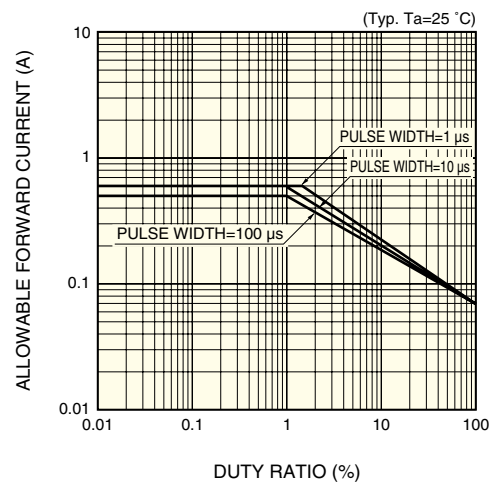


■ Allowable forward current vs. duty ratio

L3882



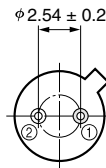
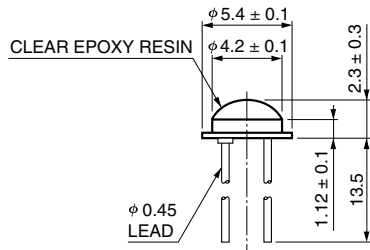
L6108, L6112 series



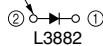
Red LED L3882, L6108, L6112 series

■ Dimensional outlines (unit: mm)

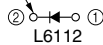
L3882, L6112



COMMON TO CASE

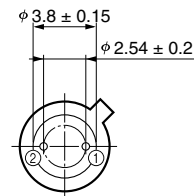
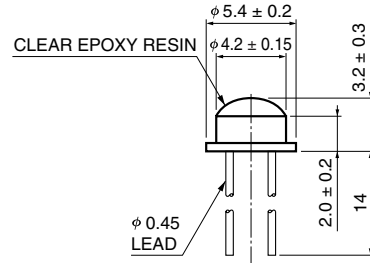


COMMON TO CASE



KLEDA0063EA

L6108

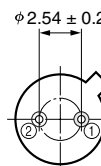
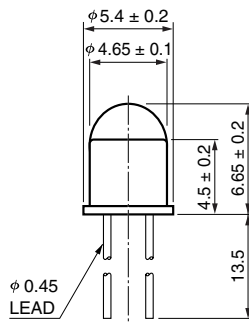


COMMON TO CASE



KLEDA0030EC

L6112-01

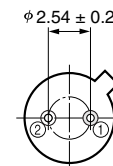
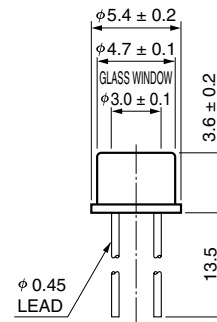


COMMON TO CASE

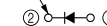


KLEDA0064EA

L6112-02



COMMON TO CASE



KLEDA0065EA

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