

Technical Data Sheet

3.0mm Round Type LED Lamps

204-10SURC/S530-A3

Features

- Low power consumption.
- Versatile mounting PCB or pane
- High efficiency.
- IC compatible/low current requirement.

Descriptions :

- The series is 4.4*5.6mm LED lamps.
- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc.



Applications :

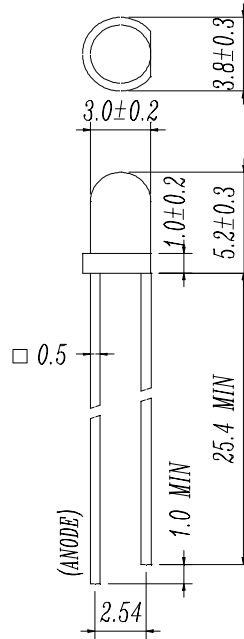
- TV set
- Monitor
- Telephone
- Computer

Device Selection Guide

Water Clear	Chip	Lens Color
Material	Emitted Color	

A0108020,H0108009

Package Dimensions



Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Lead spacing is measured where the lead emerges from the package.
- Protruded resin under flange is 1.5mm Max LED.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Forward Current	I _F	25	mA
Pulse Forward Current ^{*1}	I _{FP}	160	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	60	mW
Reverse Voltage	V _R	5	V

Notes: *1:IFP Conditions--Pulse Width ≤ 10msec and Duty ≤ 1/10.

*2:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	IF= 20 mA	1.70	2.00	2.40	V
Reverse Current	I _R	V _R = 5 V	/	/	10	μA
Luminous Intensity	I _v	IF= 20 mA	250	500	/	mcd
Viewing Angle	2θ 1/2	IF= 20 mA	/	25	/	deg
Peak Wavelength	λ _p	IF= 20 mA	/	632	/	nm
Dominant Wavelength	λ _d	IF= 20 mA	/	624	/	nm
Spectrum Radiation Bandwidth	Δλ	IF= 20 mA	/	20	/	nm

Chromatically Coordinates Specifications for Bin Grading

Rank	Min.	Max.	Rank	Min.	Max.
U	400	800	X	1600	3200
V	630	1250	-----	-----	-----
W	1000	2000	-----	-----	-----

Typical Electro-Optical Characteristics Curves

(SUR)

