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Features

- ◆ Low power consumption
- ◆ High efficiency
- ◆ Low current requirement
- ◆ Choice of various viewing angles
- ◆ Versatile mounting on P.C. Board or panel
- ◆ Reliable and robust
- ◆ Pb free
- ◆ The product itself will remain within RoHS compliant version

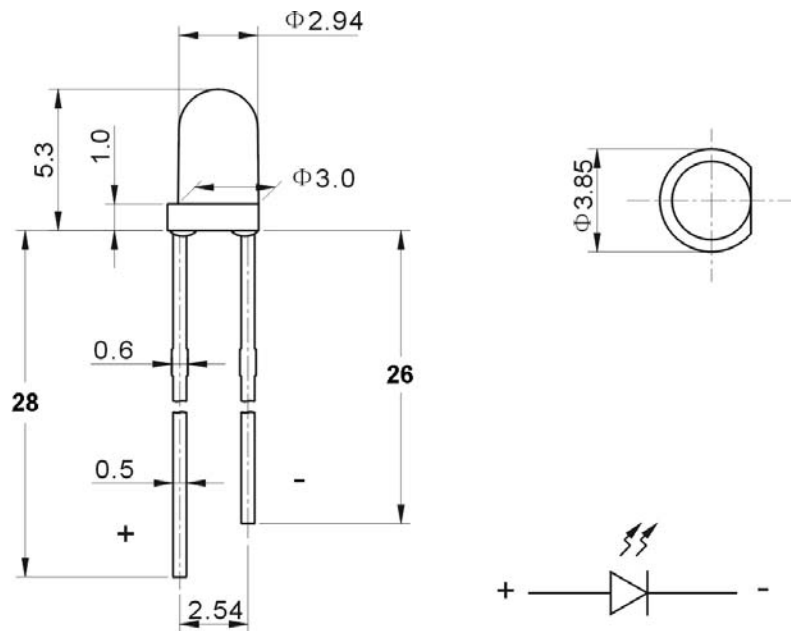
Descriptions

- ◆ The series is specially designed for applications requiring higher brightness.
- ◆ The led lamps are available with different colors, intensities.

Applications

- ◆ TV set
- ◆ Monitor
- ◆ Telephone
- ◆ Computer
- ◆ Circuit board.

Package Dimension:



NOTE: TOLERANCE $\pm 0.5\text{mm}$

Part NO.	Material	Lens Color	Source Color
3R4VC-A15M623	AlGaAs/GaAs	Water Clear	Super Red

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerances unless Dimension $\pm 0.25\text{mm}$.
3. An epoxy meniscus may extend about 1.5mm (0.059") down to the lead.

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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	MAX.	Unit
Power Dissipation	P_d	100	mW
Peak Forward Current(1/10 Duty Cycle,0.1ms Pulse Width)	I_{FP}	200	mA
Continuous Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	Topr	-40°C to +80°C	
Storage Temperature Range	Tstg	-40°C to +85°C	
Lead Soldering Temperature [4mm(.157") From Body]	Tsol	260°C for 5 Seconds	

Electrical Optical Characteristics: at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V_F	1.9	2.0	2.4	V	$I_F=20mA$
Luminous Intensity	I_v	2300	2800		mcd	$I_F=20mA$
Dominant Wavelength	λ_d	620	625		nm	$I_F=20mA$
Peak Emission Wavelength	λ_P		630		nm	$I_F=20mA$
Spectral Line Half-Width	$\Delta\lambda$		30		nm	$I_F=20mA$
Reverse Current	I_R			10	μA	$V_R=5V$
Viewing Angle	θ		15		deg	$I_F=20mA$

Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Typical Electrical/Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

Wave Length(nm) Super Red@ $\lambda_P = 630$

