

3.4mm RIGHT ANGLE LED INDICATOR

Part Number: L-138A8QMP/1SRD/TG

Super Bright Red

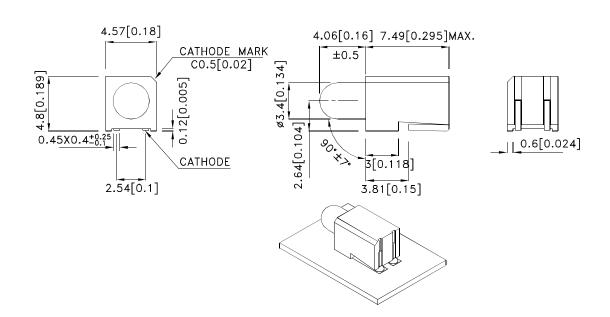
Features

- Surface mount type.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Package:1000pcs / reel.
- Moisture sensitivity level : level 3.
- Housing material: PPA.
- Housing UL rating: 94V-0.
- High temperature resistant housing.
- High glass transition temperature epoxy.
- RoHS compliant.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions





- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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APPROVED: WYNEC CHECKED: Allen Liu DRAWN: F.Cui ERP: 1102000502

Selection Guide

Part No.	Dice	Dice Lens Type Iv (mcd) [2] @ 20mA		,	Viewing Angle [1]
			Min.	Тур.	201/2
L-138A8QMP/1SRD/TG	Super Bright Red (GaAlAs)	Dod Diffused	150	300	60°
		Red Diffused	*40	*90	

Notes:

- $1. \, \theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	655		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Red		10	uA	VR = 5V

- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

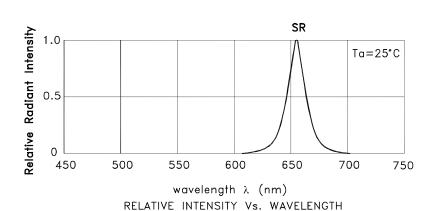
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red			
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	155	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

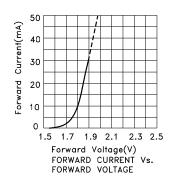
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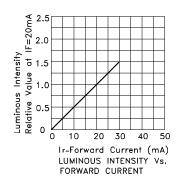
Luminous intensity/ luminous Flux: +/-15%.
 *Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

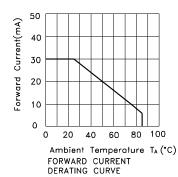


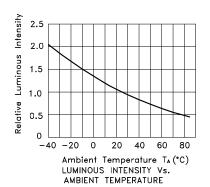
Super Bright Red

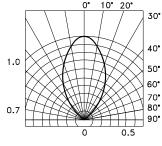
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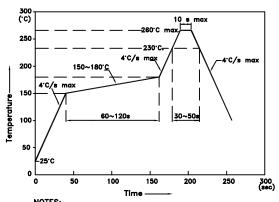


SPATIAL DISTRIBUTION

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Reflow Soldering Profile For Lead-free SMT Process.



NOTES:

1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

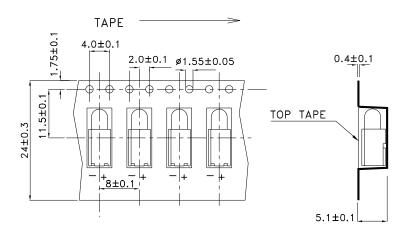
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

3.No more than once.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.0 0 0

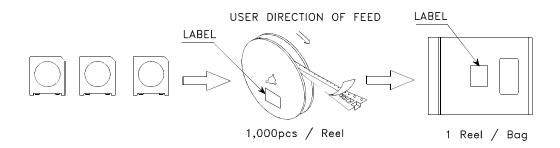
Tape Dimensions (Units : mm)

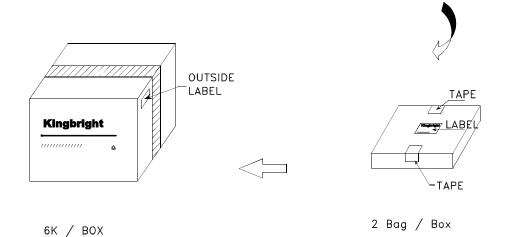


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PACKING & LABEL SPECIFICATIONS

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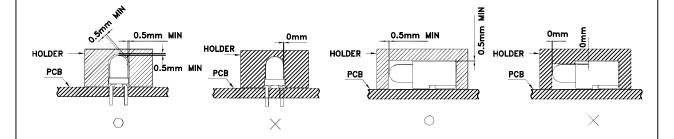




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PRECAUTIONS

- 1.A moisture barrier bag (MBB) containing LEDs shall be kept in an environment with temperature below 40°C and humidity below 90% RH.
 - A MBB shall be kept sealed until the LEDs contained in that bag are to be used immediately. Storge in an environment with temperature $5\sim30^{\circ}\text{C}$ and humidity below 60% RH.
- 2.After a MBB has been opened, all LEDs contained in that bag shall complete soldering process within according to the conditions listed on the Kingbright MBB.
- 3.If the 10% spot of a humidity indicator card (HIC) indicates wet, LEDs shall be baked according to the conditions listed on the Kingbright MBB.
- 4.During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.



- 5. The tip of the soldering iron should never touch the lens epoxy.
- 6.After soldering, allow at least three minutes for the component to cool to room temperature before further operations.
- 7.If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.

Detailed application notes are listed on our website. http://www.kingbright.com/application notes

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