

Kingbright

4.7mm HOUSING FOR LED LAMP WITH WIRE

Part Number: WP1533AA/SRD-W152

SUPER BRIGHT RED

Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- IC COMPATIBLE/LOW CURRENT CAPABILITY.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

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

Package Dimensions

Fig.1 :

ANODE LEAD :RED INSULATION LEAD , 24 AWG , UL#1007, ϕ 1.45mm,

TIN OVERCOAT WIRE , STRIP 12.7mm.

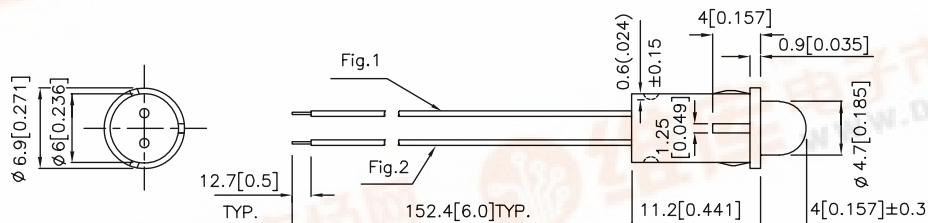
Fig. 2 :

CATHODE LEAD : BLACK INSULATION LEAD , 24 AWG , UL#1007 , ϕ 1.45mm,

TIN OVERCOAT WIRE , STRIP 12.7mm.

Fig.3 :

STAKING TO FIX THE HOLDER AND LED .



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2 θ 1/2
WP1533AA/SRD-W152	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	110	400	60°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

2. Luminous Intensity / Luminous Flux: +/-15%

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Red	660		nm	IF=20mA
λ_D [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Red	20		nm	IF=20mA
C	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Red		10	uA	VR = 5V

Notes:

1. Wavelength: +/-1nm

2. Forward Voltage: +/-0.1V

Absolute Maximum Ratings at TA=25°C

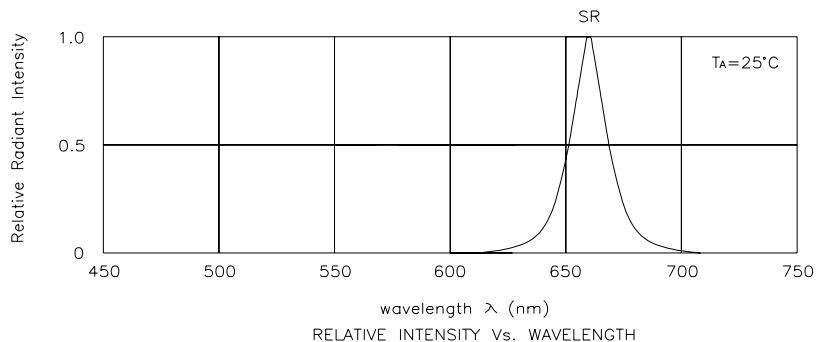
Parameter	Super Bright Red	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

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

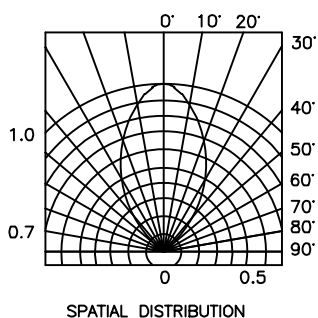
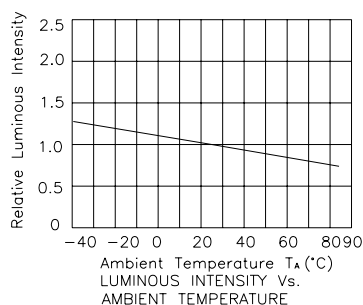
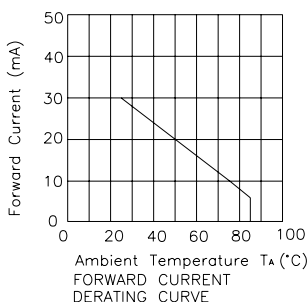
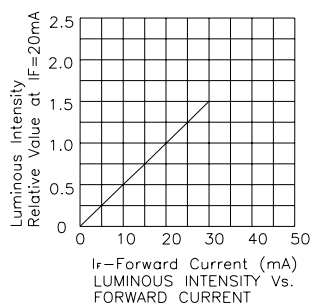
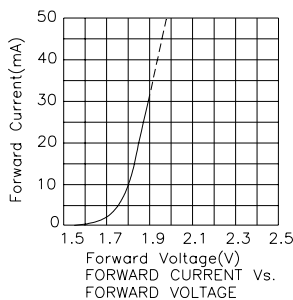
2. 2mm below package base.

3. 5mm below package base.



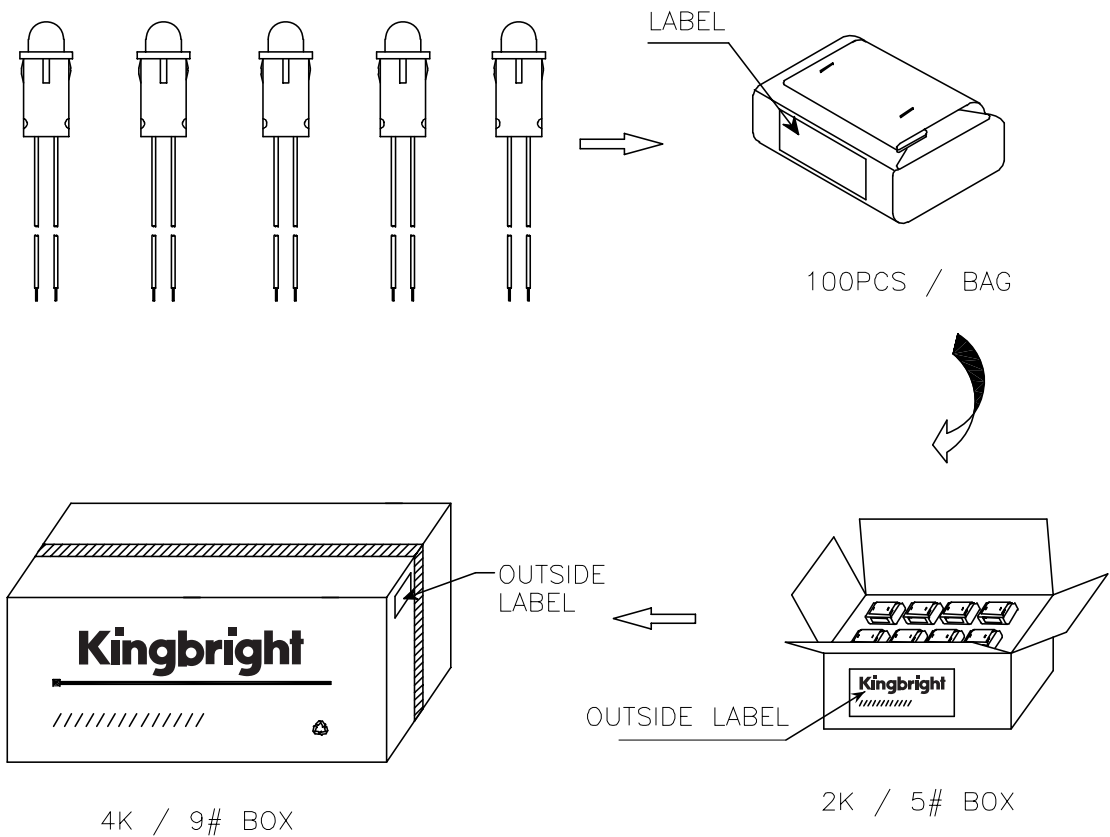
Super Bright Red

WP1533AA/SRD-W152



PACKING & LABEL SPECIFICATIONS

WP1533AA/SRD-W152



Kingbright	
Q.C.	
TYPE NO : WP1533AAxxx	
QUANTITY : 100 pcs	
S/N : XXX	CODE: XX
LOT NO 	
RoHS Compliant	

QC
xx xx. xxxx
PASSED
Date