SOT-23 SURFACE MOUNT LED LAMP

Part Number: KM-23LSRD

Super Bright Red

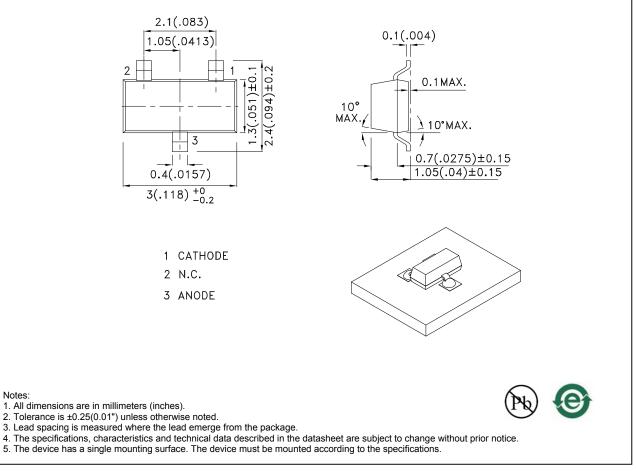
Features

- SOT-23 package surface mount LED lamp.
- Low power consumption.
- Long life solid state reliability.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAJ2157 APPROVED: WYNEC REV NO: V.2A CHECKED: Allen Liu DATE: OCT/16/2014 DRAWN: P.Cheng PAGE: 1 OF 5 ERP: 1202000031

Salaction Guida

Selection Guide					
Part No.	Dice Lens Type	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
KM-23LSRD	Super Bright Red (GaAlAs)	Red Diffused	4	8	140°
		Rea Dillasea	*1.2	*4	

Notes: 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%. *Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	655		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	I⊧=2mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.65	2.5	V	I⊧=2mA
lr	Reverse Current	Super Bright Red		10	uA	VR = 5V

Notes:

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

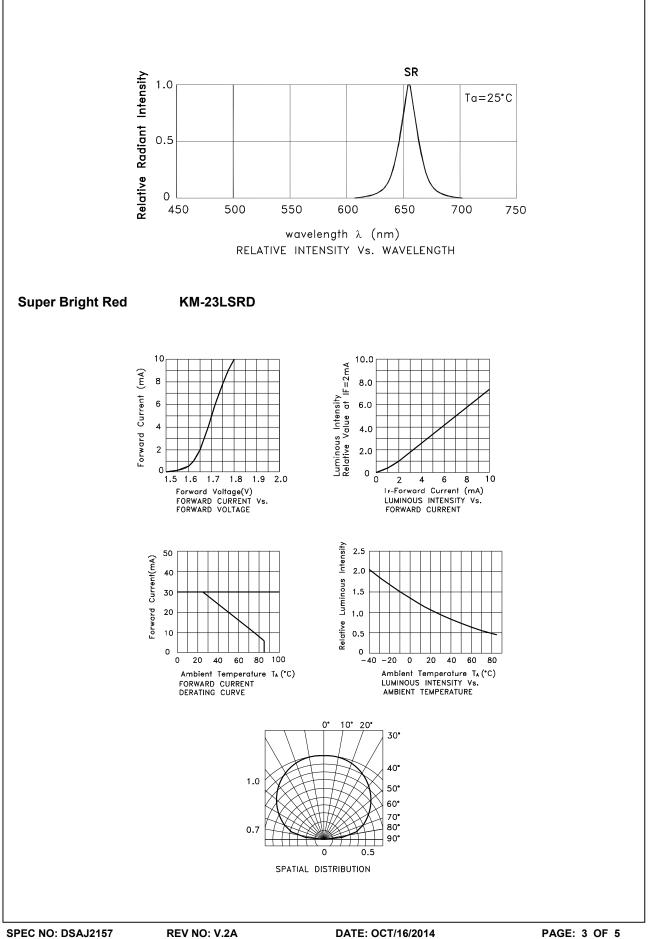
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units		
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			

Note:

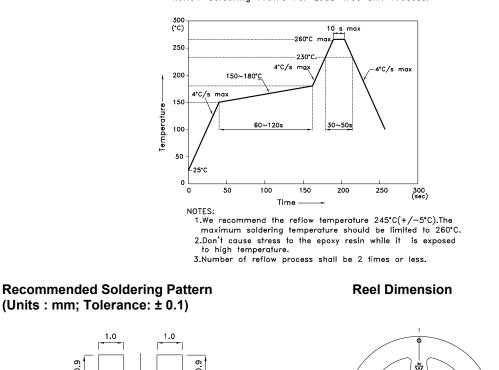
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



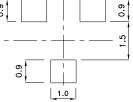
KM-23LSRD

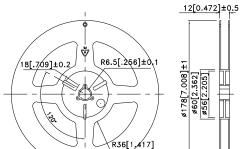
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.

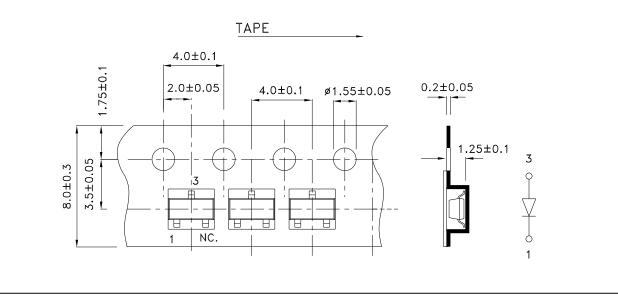


(Units : mm; Tolerance: ± 0.1)





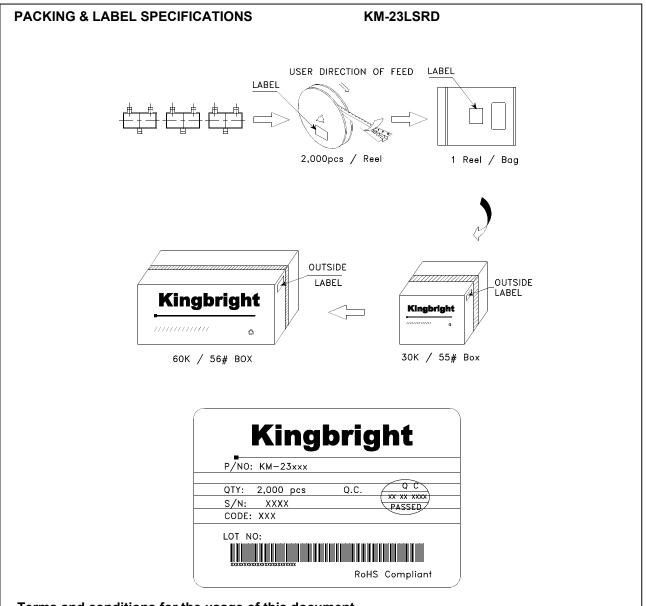
Tape Dimensions (Units : mm)



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9[0.<u>354]±0.2</u>| |____



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