SOT-23 SURFACE MOUNT LED LAMP

Part Number: KM-23SRD-F

Super Bright Red

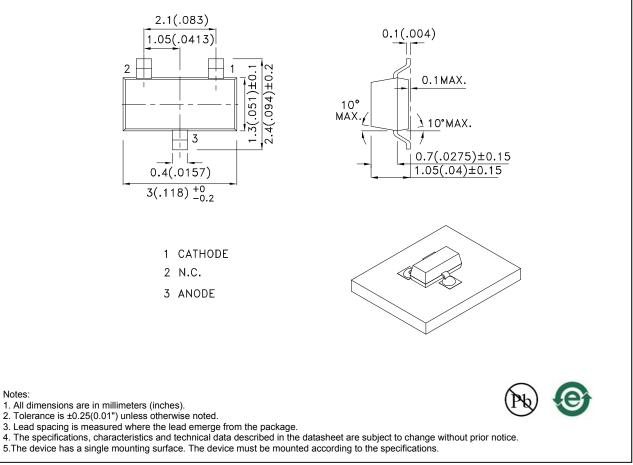
Features

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

Description

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

Package Dimensions



SPEC NO: DSAA8057 APPROVED: WYNEC

Notes:

REV NO: V.11A **CHECKED:** Allen Liu

DATE: MAR/23/2012 DRAWN: D.M.Su

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Selection Guide

Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
KM-23SRD-F	Super Bright Red (GaAlAs)	Red Diffused	55	90	140°		
			*12	*30			

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Ту	/p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660	*655		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20			nm	I⊧=20mA
С	Capacitance	Super Bright Red	45			pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red	1.85		1.85 2.5 V		l⊧=20mA
IR	Reverse Current	Super Bright Red			10	uA	Vr=5V

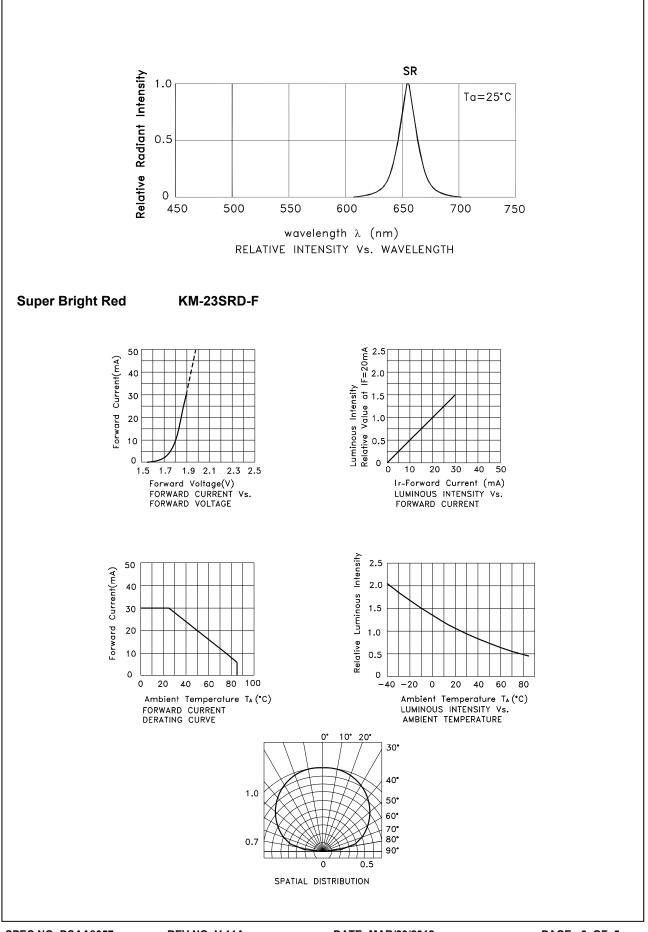
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

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:

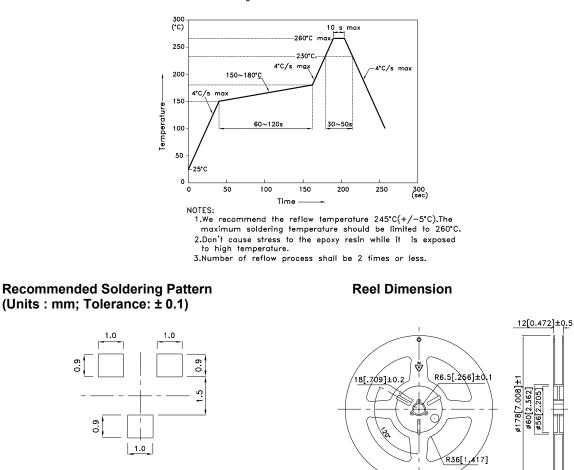
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

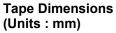


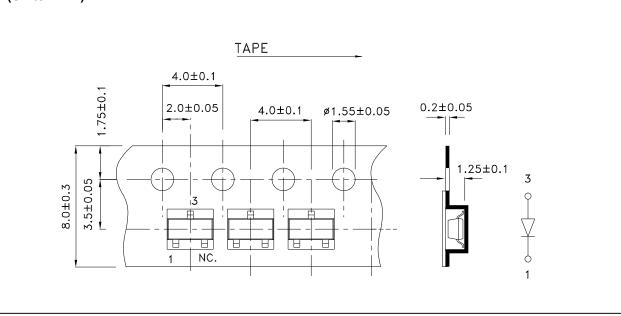
KM-23SRD-F

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.







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9[0.354]±0.2

