### SOT-23 SURFACE MOUNT LED LAMP

Part Number: KM-23SRD-F SUPER BRIGHT RED

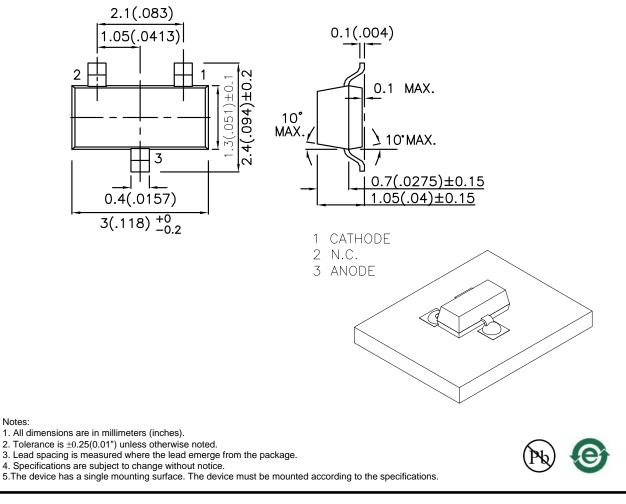
#### Features

- •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**



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Selection G	uide				
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	2 0 1/2
KM-23SRD-F	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	36	70	140°

Notes:

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

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		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
V <sub>F</sub> [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	IF=20mA
lr	Reverse Current	Super Bright Red		10	uA	VR = 5V

Notes:

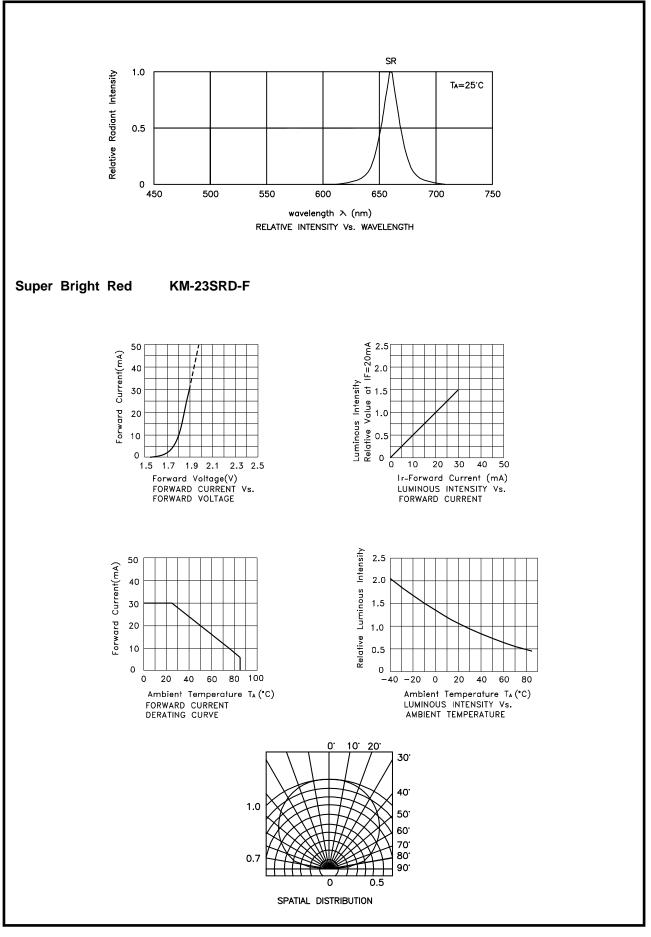
1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

#### 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/Storage Temperature	-40°C To +85°C		

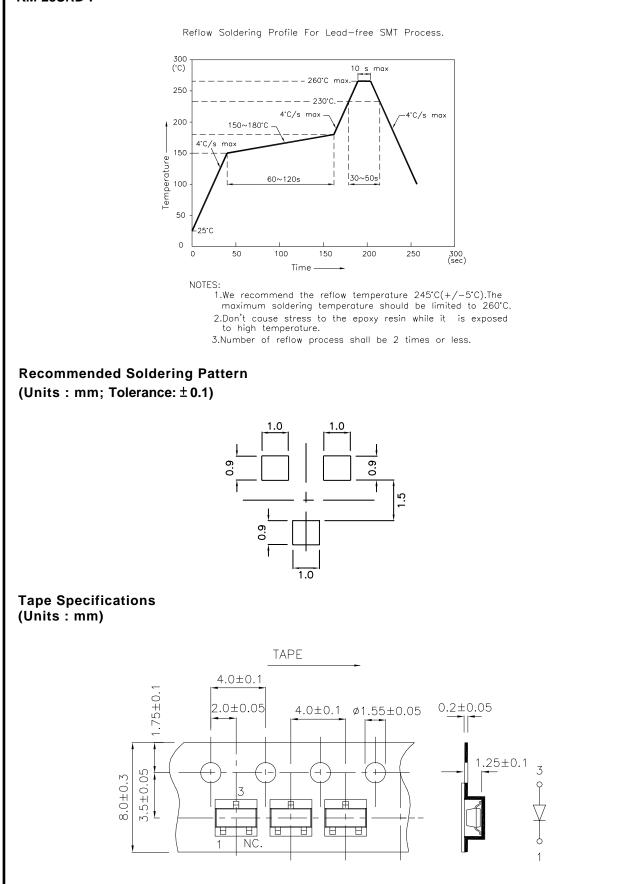
Note:

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



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