SUBMINIATURE SOLID STATE LAMP

KM-27SRD-03

SUPER BRIGHT RED

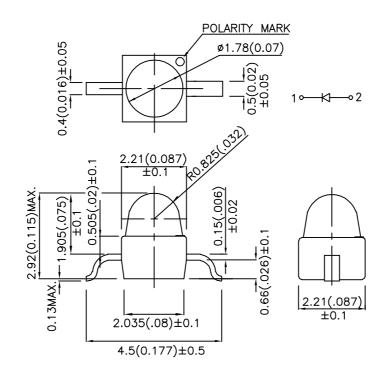
Features

- •SUBMINIATURE PACKAGE.
- •GULL WING.
- •LONG LIFE SOLID STATE RELIABILITY.
- •LOW PACKAGE PROFILE.
- •PACKAGE :1000PCS / REEL.
- •RoHS COMPLIANT.

Description

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

Package Dimensions



- Notes:
 All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
 Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

SPEC NO: DSAD0285 **APPROVED: J. Lu**

REV NO: V.4 CHECKED: Allen Liu

DATE: MAR/20/2005 DRAWN: Y.W.WANG

Selection Guide)				
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	201/2
KM-27SRD-03	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	50	150	40°

Note:

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

Electrical / Optical Characteristics at TA=25°C

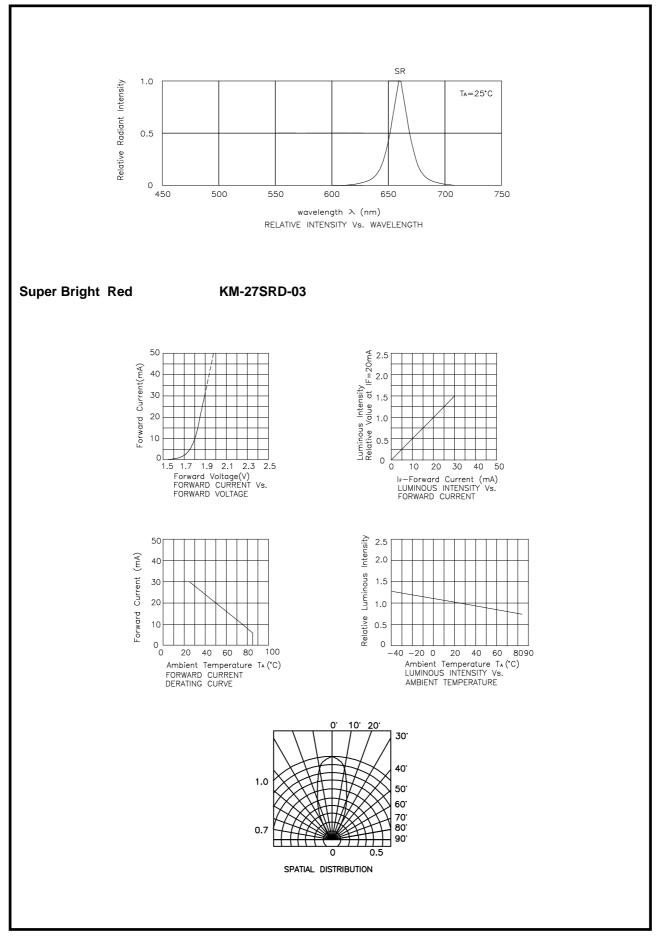
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super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

Absolute Maximum Ratings at TA=25°C

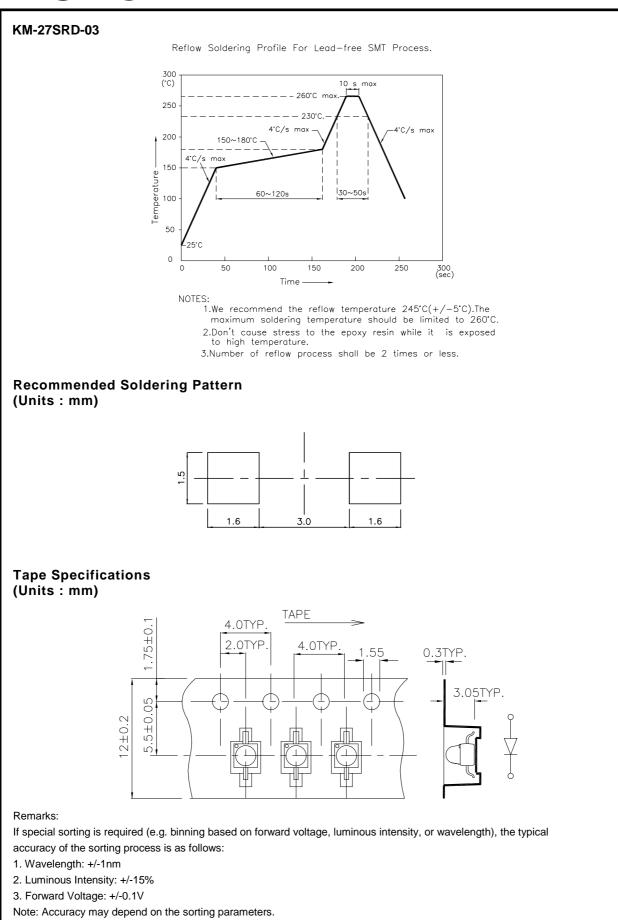
Parameter	Super Bright Red	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

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



REV NO: V.4 CHECKED: Allen Liu DATE: MAR/20/2005 DRAWN: Y.W.WANG



REV NO: V.4 CHECKED: Allen Liu DATE: MAR/20/2005 DRAWN: Y.W.WANG