

Part Number: KPC-3216SRD-PRV

SUPER BRIGHT RED

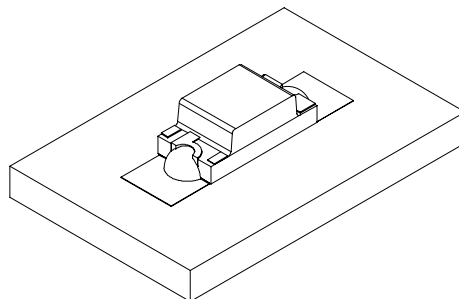
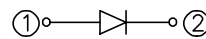
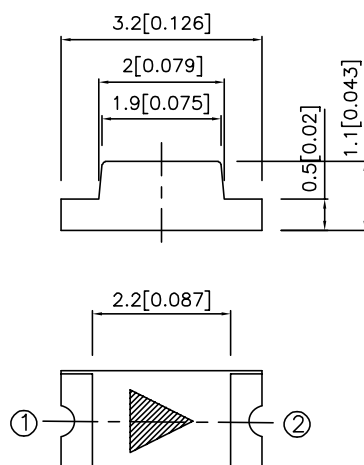
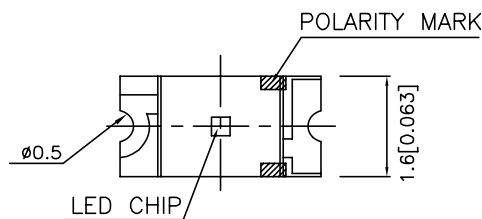
Features

- 3.2X1.6mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- 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



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.2 (0.008") unless otherwise noted.
3. Specifications are subject to change without notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KPC-3216SRD-PRV	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	36	80	120°

Notes:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity / luminous Flux: $\pm 15\%$.

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

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

Notes:

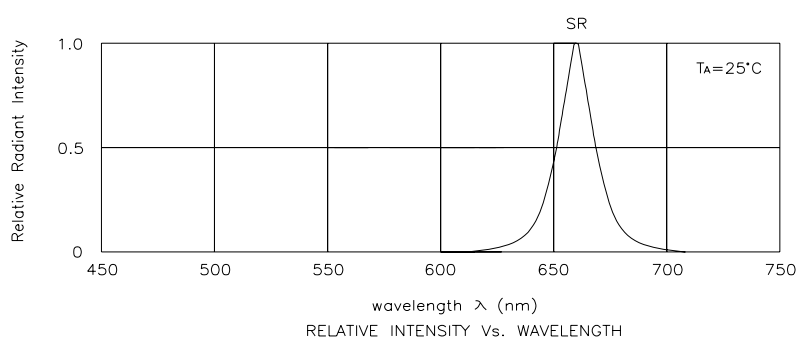
1. Wavelength: $\pm 1\text{nm}$.
2. Forward Voltage: $\pm 0.1\text{V}$.

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

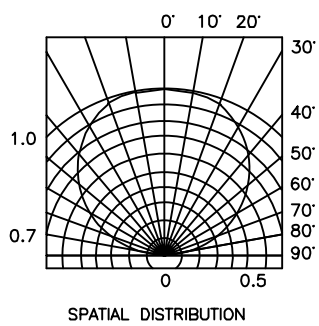
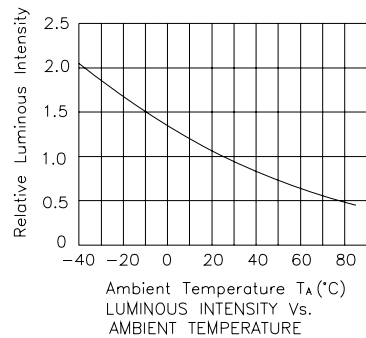
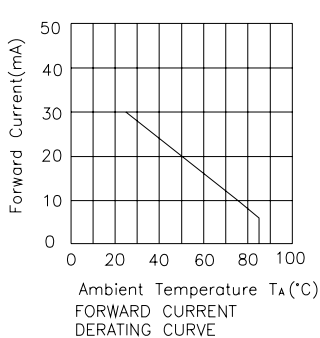
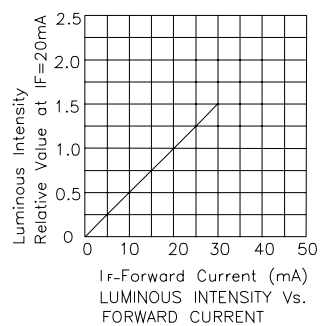
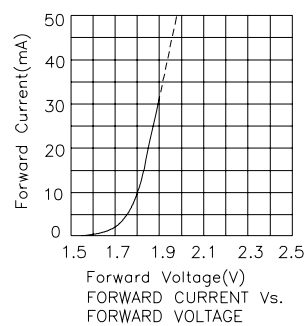
Parameter	Super Bright Red	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To $+85^\circ\text{C}$	

Note:

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

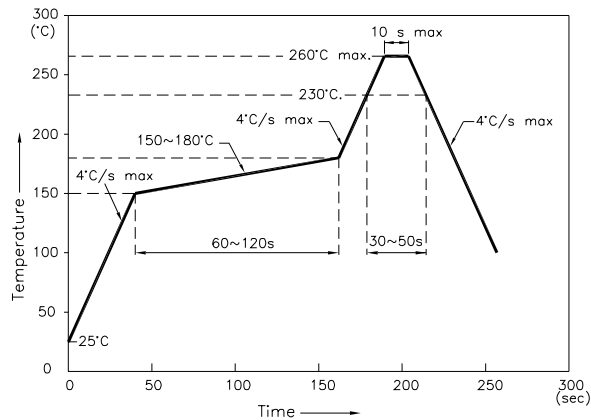


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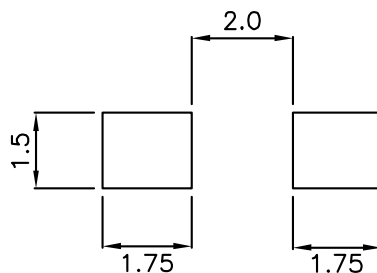
Reflow Soldering Profile For Lead-free SMT Process.



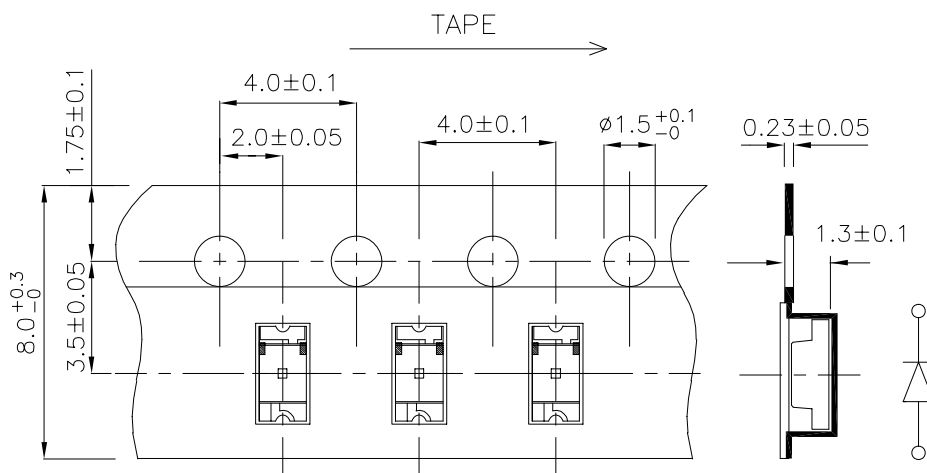
NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units : mm; Tolerance: ±0.1)



Tape Specifications (Units : mm)





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EN

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the manufacturer

DE

Dieses Datenblatt wird vom
Hersteller bereitgestellt

FR

Cette fiche technique est
présentée par le fabricant