

Surface Mount LEDs

Order code	Manufacturer code	Description
72-8680	KA-2734SRSGC	RED/GRN BI-COL.SMT
72-8685	KA-2734SRSGC.	RL 1000 RED/GRN BI-COL.SMT LED

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The enclosed information is believed to be correct, Information may change 'without notice' due to	Revision A
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	04/07/2003

R Kingbright

2.7x3.4mm SURFACE MOUNT LED LAMPS

KA-2734ESGC KA-2734SRSGC

Features

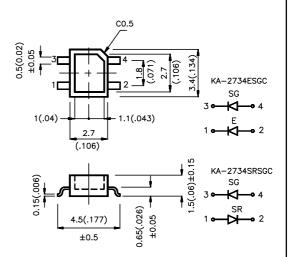
- •2.7mm X 3.4mm SMT LED. 1.5mm HEIGHT ONLY.
- •BOTH CHIPS CAN BE CONTROLLED SEPARATELY. •SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER
- PROCESS.
- •AVAILABLE ON TAPE AND REEL.
- •IDEAL FOR BACKLIGHTING.

Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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



Package Dimensions

Notes

- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01")unless otherwise noted.
 Lead spacing is measured where the lead emerge package.
 Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Max.	2q1/2
KA-2734ESGC	HIGH EFFICIENCY RED (GaAsP/GaP)		8	50	120°
	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	8	50	120°
KA-2734SRSGC	SUPER BRIGHT RED (GaAlAs)		8	200	120°
	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	8	50	120°

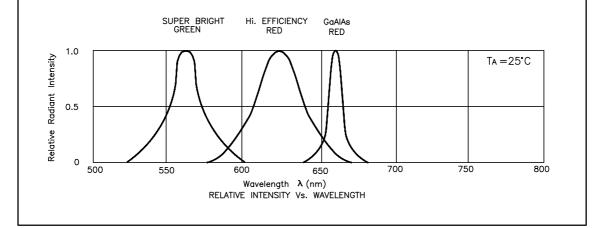
Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

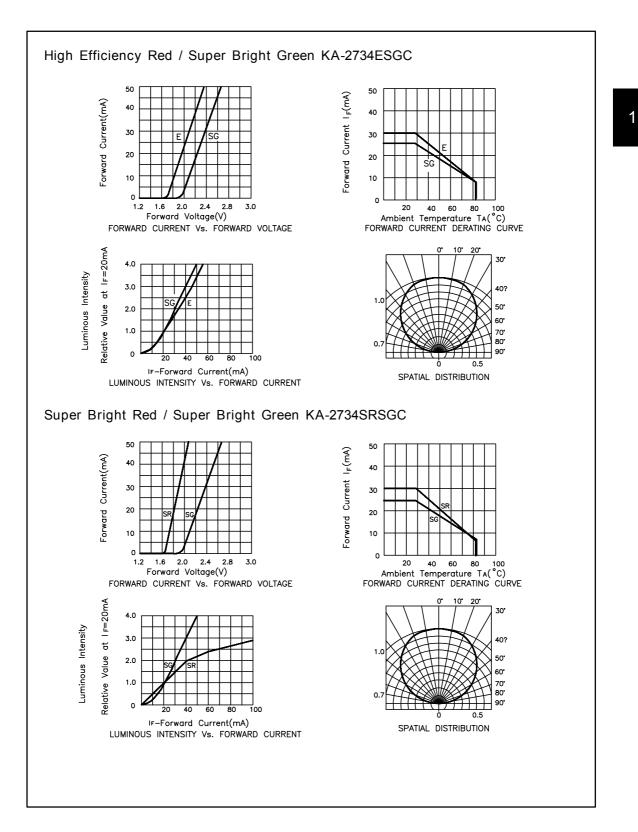
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Red Super Bright Green	625 660 565		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Super Bright Red Super Bright Green	45 20 30		nm	IF=20mA
С	Capacitance	High Efficiency Red Super Bright Red Super Bright Green	12 95 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Super Bright Red Super Bright Green	2.0 1.85 2.2	2.5 2.5 2.5	v	IF=20mA
I _R	Reverse Current	All	10		uA	VR = 5V

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

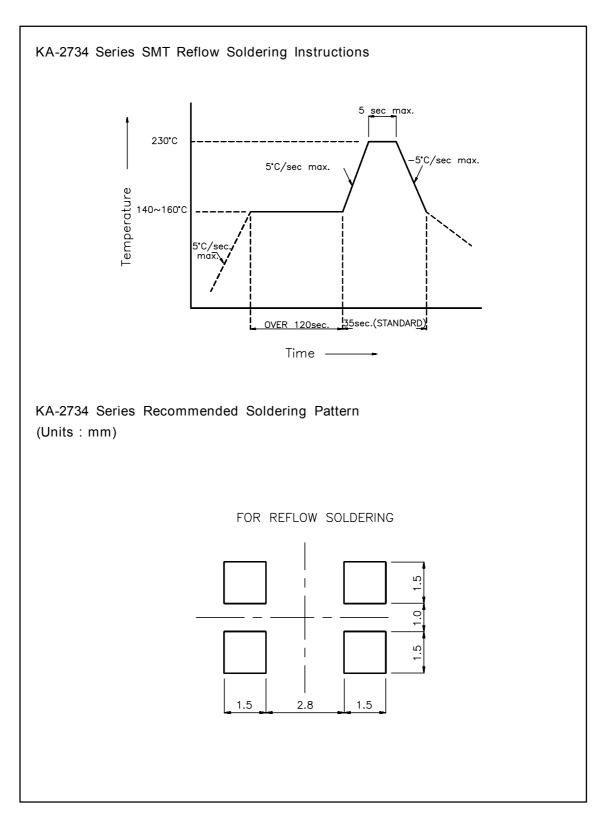
Parameter	High Efficiency Red	Super Bright Red	Super Bright Green	Units	
Power dissipation	105	100	105	mW	
DC Forward Current	30	30	25	mA	
Peak Forward Current [1]	150	150	150	mA	
Reverse Voltage	5	5	5	V	
Operating/Storage Temperature	-40°C To +85 °C				

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

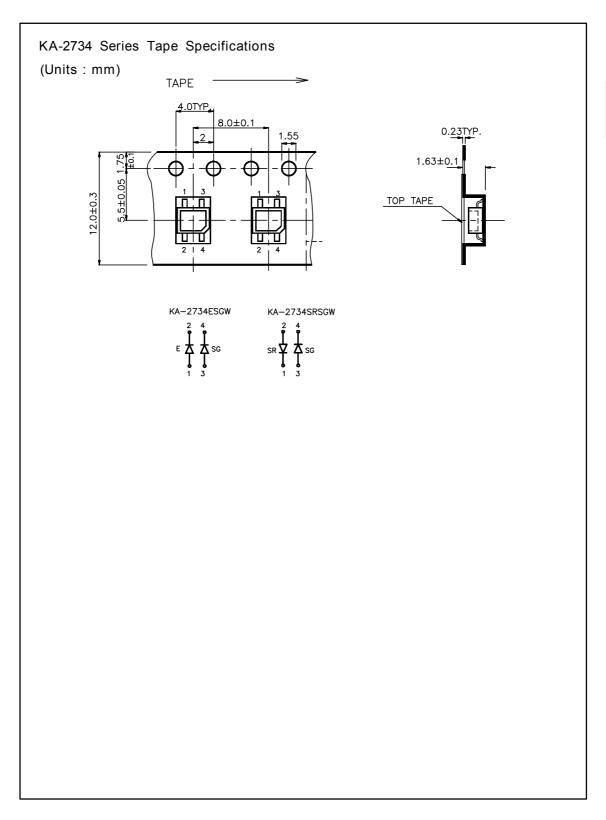




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