

7.5mmx14mm LIGHT BAR

Part Number: DE/2SURKD

Hyper Red

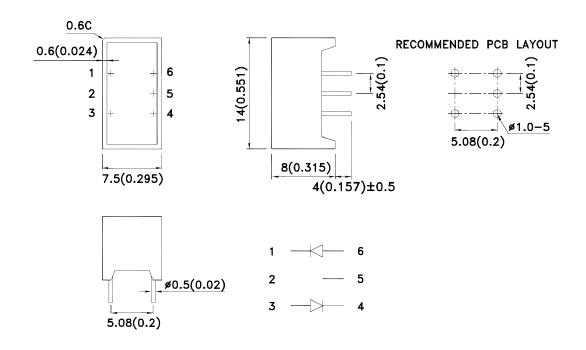
Features

- Uniform light emitting area.
- Easily mounted on P.C. boards or industry standard sockets.
- Flush mountable.
- Excellent on/off contrast.
- Can be used with panels and legend mounts.
- Mechanically rugged
- RoHS compliant.

Description

The Hyper Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.

Package Dimensions& Internal Circuit Diagram





- 1. All dimensions are in millimeters (inches). Tolerance is ±0.25(0.01") unless otherwise noted.
- 2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

 SPEC NO: DSAI5732
 REV NO: V.3
 DATE: MAY/27/2010
 PAGE: 1 OF 4

 APPROVED: WYNEC
 CHECKED: Joe Lee
 DRAWN: F.F.Zhou
 ERP: 1334000018

Kingbright

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [1] @ 20mA	
		,,	Min.	Тур.
DE/2SURKD	Hyper Red (AlGalnP)	RED DIFFUSED	280	550

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.95	2.5	V	IF=20mA
lr	Reverse Current	Hyper Red		10	uA	V _R =5V

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

Absolute Maximum Ratings at TA=25°C

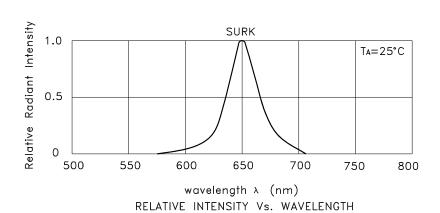
Parameter	Hyper Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature[2]	260°C For 3-5 Seconds		

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.

SPEC NO: DSAI5732 REV NO: V.3 DATE: MAY/27/2010 PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED:** Joe Lee DRAWN: F.F.Zhou ERP: 1334000018

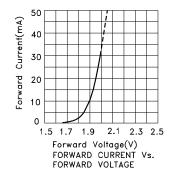
^{1.} Luminous intensity/ luminous Flux: +/-15%.

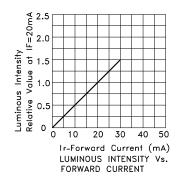
Kingbright

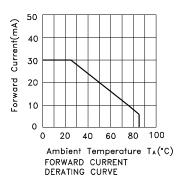


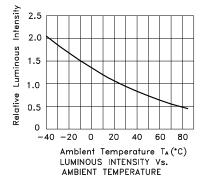
Hyper Red

DE/2SURKD

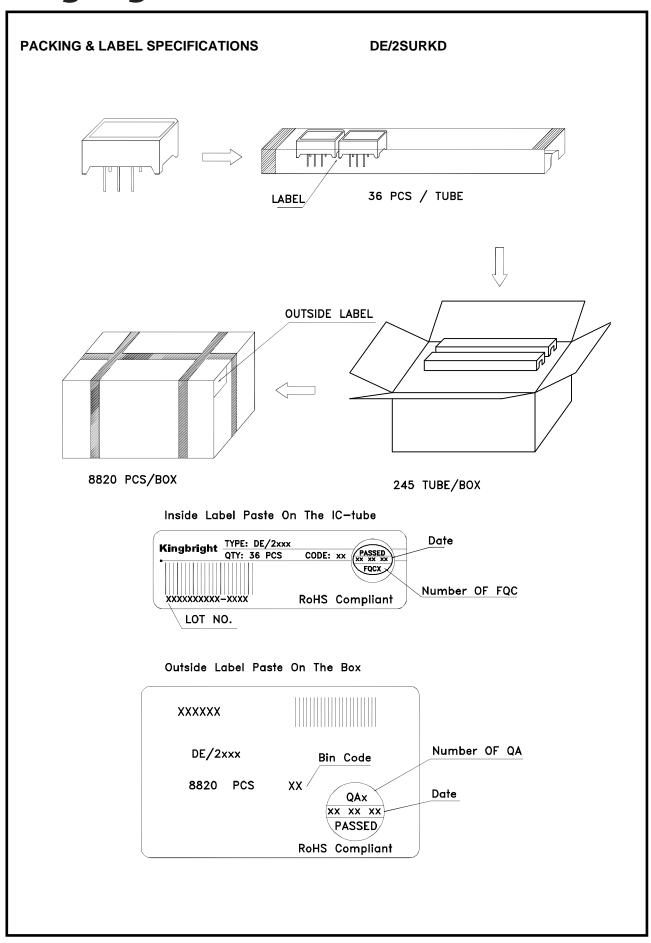








Kingbright



SPEC NO: DSAI5732 APPROVED: WYNEC REV NO: V.3 CHECKED: Joe Lee DATE: MAY/27/2010 DRAWN: F.F.Zhou PAGE: 4 OF 4 ERP: 1334000018