7.5mmx14mm LIGHT BAR

Part Number: DE/2ID

High Efficiency Red

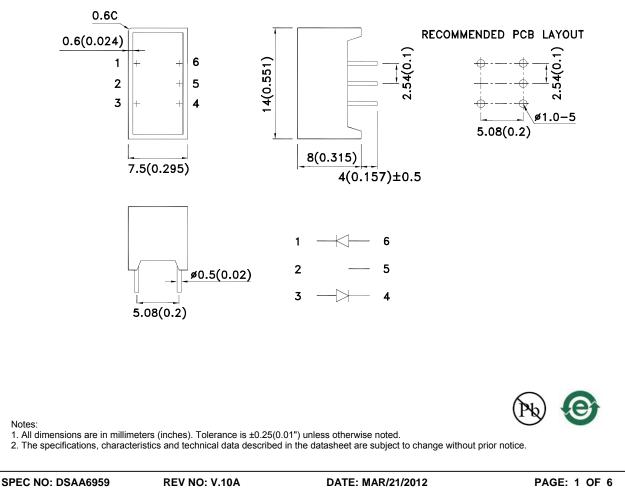
Features

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

Package Dimensions& Internal Circuit Diagram



APPROVED: WYNEC

REV NO: V.10A CHECKED: Joe Lee DATE: MAR/21/2012 DRAWN: D.M.Su PAGE: 1 OF 6 ERP: 1334000006

Part No.	Dice	Lens Type	lv (mcd) [1] @ 10mA		
			Min.	Тур.	
		Red Diffused	9	31	
DE/2ID	High Efficiency Red (GaAsP/GaP)	Red Dillused	*3.6	*9	

Note: 1. Luminous intensity/ luminous Flux: +/-15%. * Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627	*627		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625	*617		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45			nm	IF=20mA
С	Capacitance	High Efficiency Red	1	5		pF	V⊧=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2.0		2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red			10	uA	VR=5V

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

*Wavelength value is traceable to the CIE127-2007 compliant national standards.

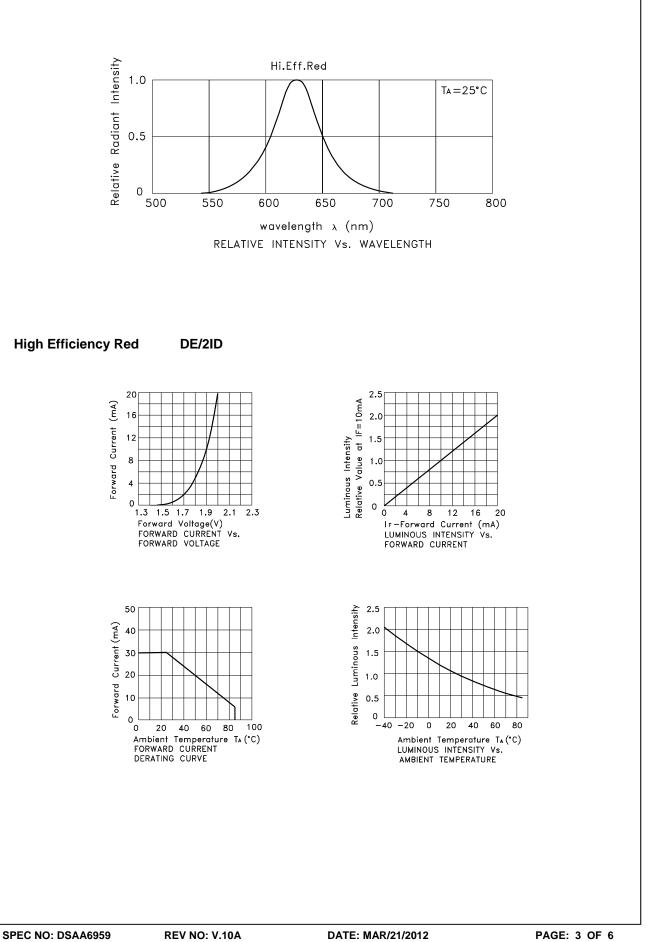
Absolute Maximum Ratings at TA=25°C

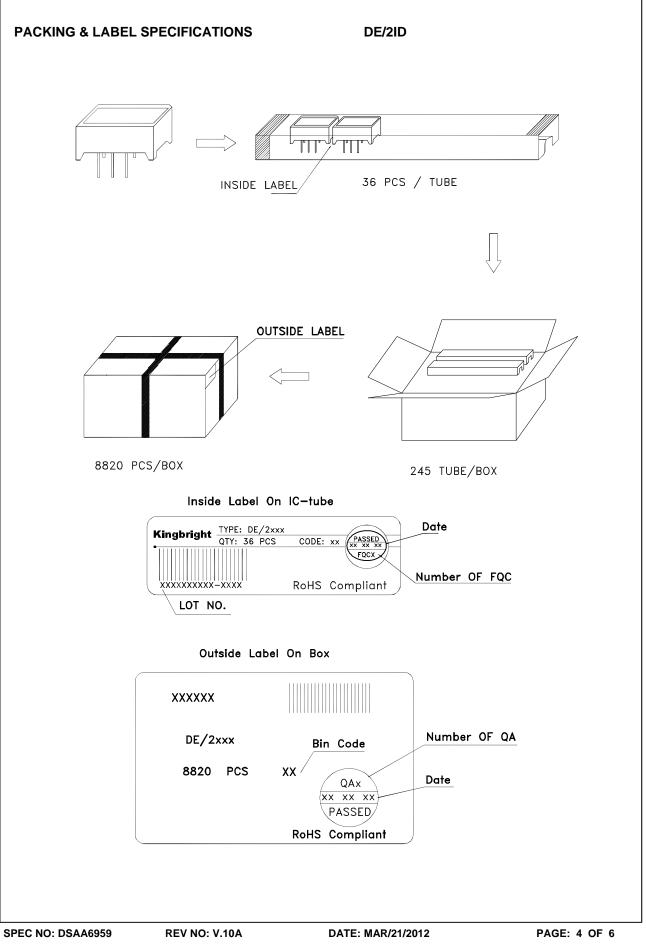
Parameter	Units			
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			
Lead Solder Temperature[2]	260°C For 3-5 Seconds			

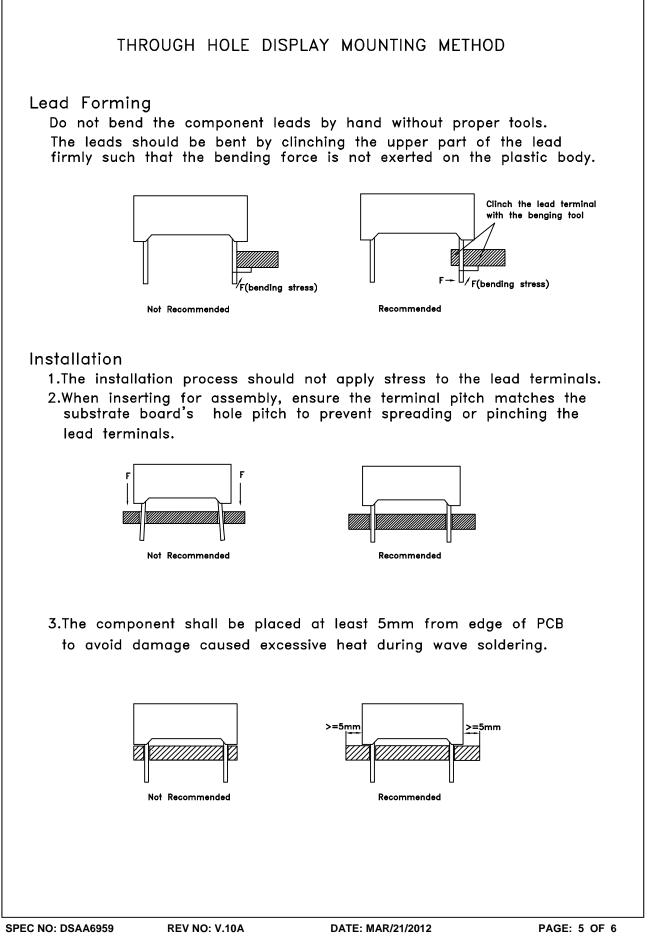
Notes:

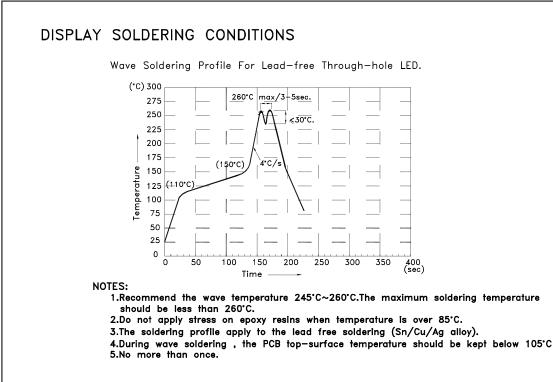
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.









Soldering General Notes:

- 1. Through-hole displays are incompatible with reflow soldering.
- 2. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

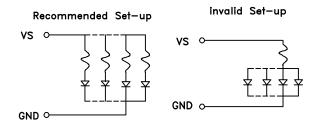
CLEANING

1.Mild "no-clean" fluxes are recommended for use in soldering.

2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

CIRCUIT DESIGN NOTES

 Protective current-limiting resistors may be necessary to operate the Displays.
LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.



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