

11mm x 1.4mm BACKLIGHT

AA1114/2EC/CC

HIGH EFFICIENCY RED

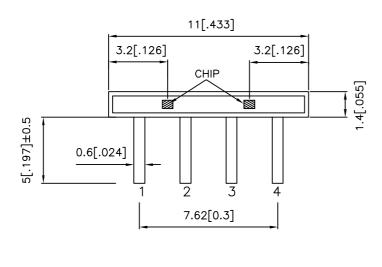
Features

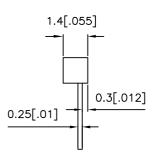
- •LOW POWER CONSUMPTION.
- •IDEAL FOR BACKLIGHTING.
- •RoHS COMPLIANT.

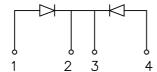
Description

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

Package Dimensions







Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25 (0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

SPEC NO: DSAB2771 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/05/2005 DRAWN: B.H.LI PAGE: 1 OF 3 ERP: 1201001181

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) © 20mA		Viewing Angle
		, , , , , , , , , , , , , , , , , , ,		Тур.	201/2
AA1114/2EC/CC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	4	9	120°

Note:

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR = 5V

Absolute Maximum Ratings at Ta=25°C

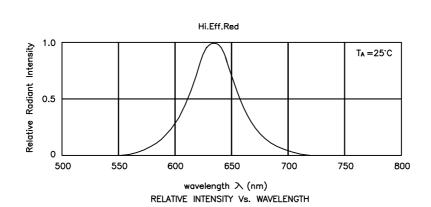
Parameter	High Efficiency Red	Units		
Power dissipation	105	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
- 3. 5mm below package base.

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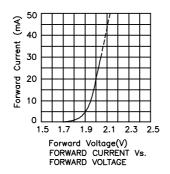
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

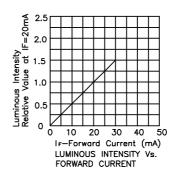
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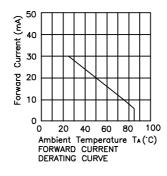


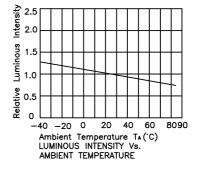
High Efficiency Red

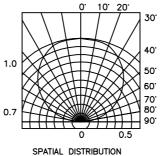
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Remarks

- If there is sorting requirement (eg. forward voltage, luminous intensity or wavelength), the condition as follows:
- 1. Wavelength: +/-1nm (Test condition is based on the sorting standard).
- 2.Luminous intensity: +/-15% (Test condition is based on the sorting standard).
- 3. Forward voltage: +/-0.1V (Test condition is based on the sorting standard).

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