

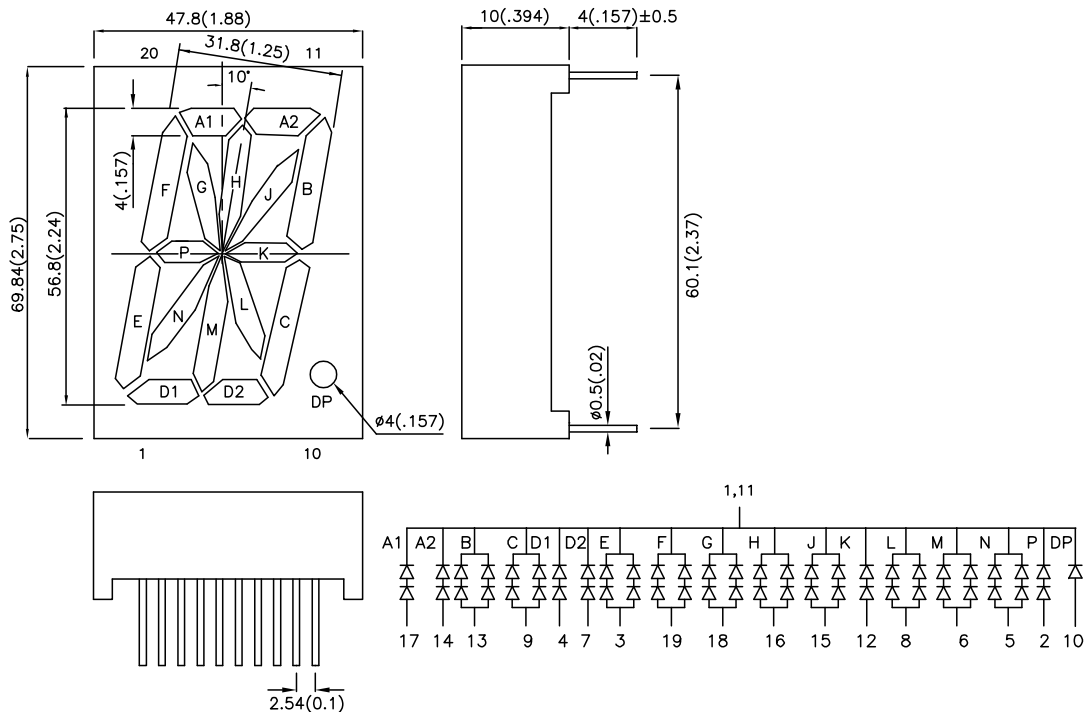
Features

- 2.3 INCH CHARACTER HEIGHT.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- 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



Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
2. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Typ.	
PSC23-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	1900	8000	Common Cathode, Rt. Hand Decimal.

Electrical / Optical Characteristics at TA=25°C

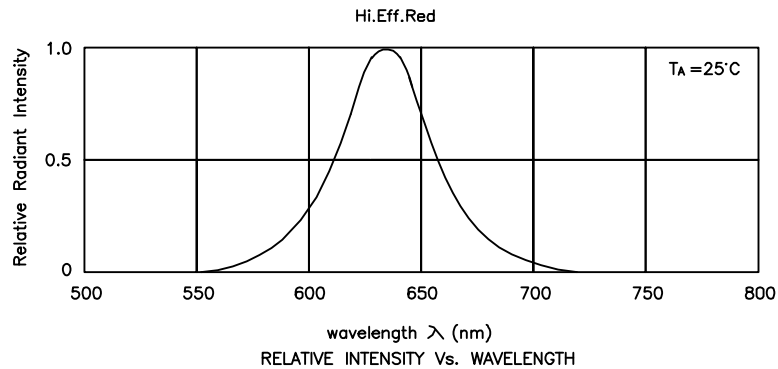
Symbol	Parameter		Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength		High Efficiency Red	627		nm	IF=20mA
λ_D	Dominant Wavelength		High Efficiency Red	625		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width		High Efficiency Red	45		nm	IF=20mA
C	Capacitance		High Efficiency Red	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	A1,A2,D1,D2,P,K	High Efficiency Red	4.0	5.0	V	IF=20mA
		B,C,E,F,G,H,J,L,M,N		3.8	5.0		
		DP		2.0	2.5		
IR	Reverse Current	A1,A2,D1,D2,P,K	High Efficiency Red		10	uA	VR = 10V VR = 10V VR = 5V
		B,C,E,F,G,H,J,L,M,N			20		
		DP			10		

Absolute Maximum Ratings at TA=25°C

Parameter		High Efficiency Red	Units
Power dissipation	A1,A2,D1,D2,P,K	150	mW
	B,C,E,F,G,H,J,L,M,N	300	
	DP	105	
DC Forward Current	A1,A2,D1,D2,P,K	30	mA
	B,C,E,F,G,H,J,L,M,N	60	
	DP	30	
Peak Forward Current [1]	A1,A2,D1,D2,P,K	160	mA
	B,C,E,F,G,H,J,L,M,N	320	
	DP	160	
Reverse Voltage	A1,A2,D1,D2,P,K	10	V
	B,C,E,F,G,H,J,L,M,N	10	
	DP	5	
Operating / Storage Temperature		-40°C To +85°C	
Lead Solder Temperature [2]		260°C For 5 Seconds	

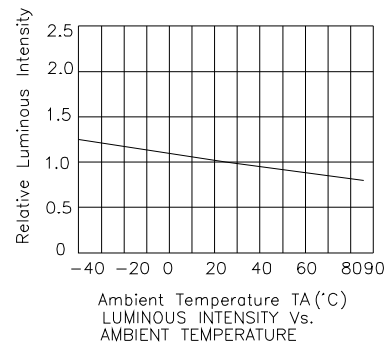
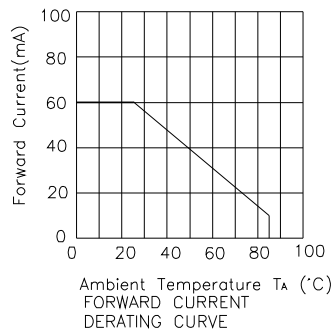
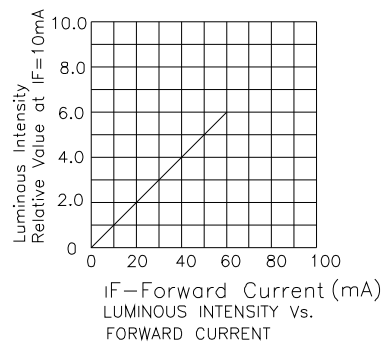
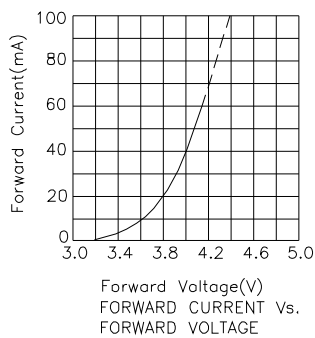
Notes:

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



High Efficiency Red

PSC23-11EWA



NOTE:the curves are on the segment B,C,E,F,G,H,J,L,M and N.

Remarks:

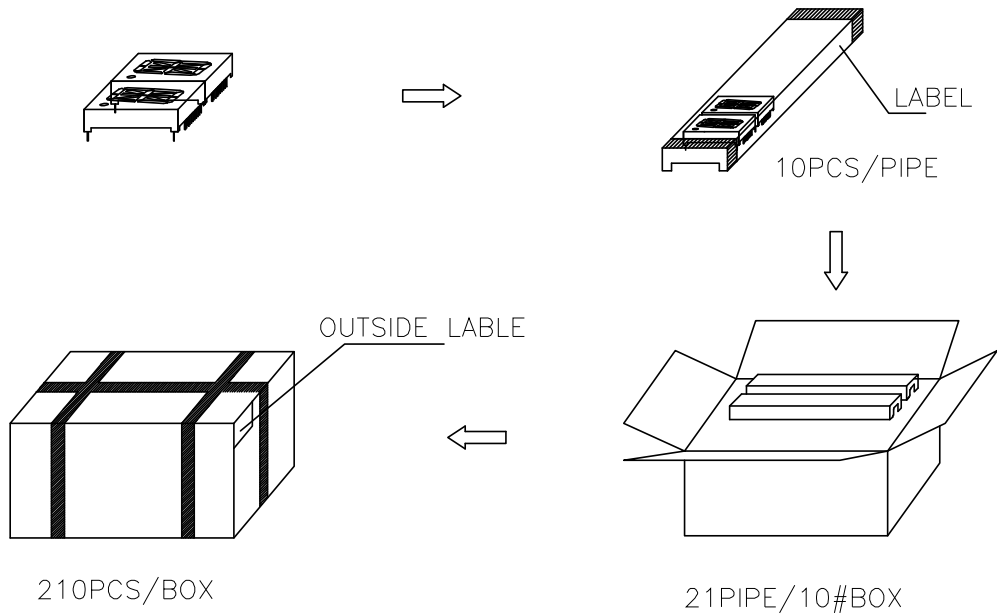
If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity/ Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

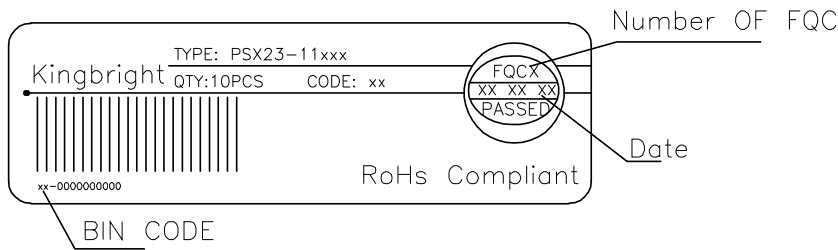
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

PSC23-11EWA



Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box

